

MANUFACTURERS' RECORD

A WEEKLY REVIEW OF THE IRON, STEEL, METAL & HARDWARE TRADES.

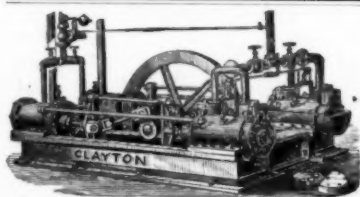
AND A MANUFACTURING AND TEXTILE PAPER, DEVOTED TO THE UPBUILDING OF SOUTHERN MANUFACTURES AND THE DEVELOPMENT OF THE MATERIAL RESOURCES OF THE SOUTH.

WEEKLY.
\$3.00 PER YEAR.

BALTIMORE, MARCH 15, 1884.

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VOL. V. No. 5.

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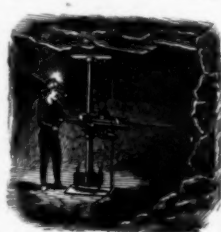
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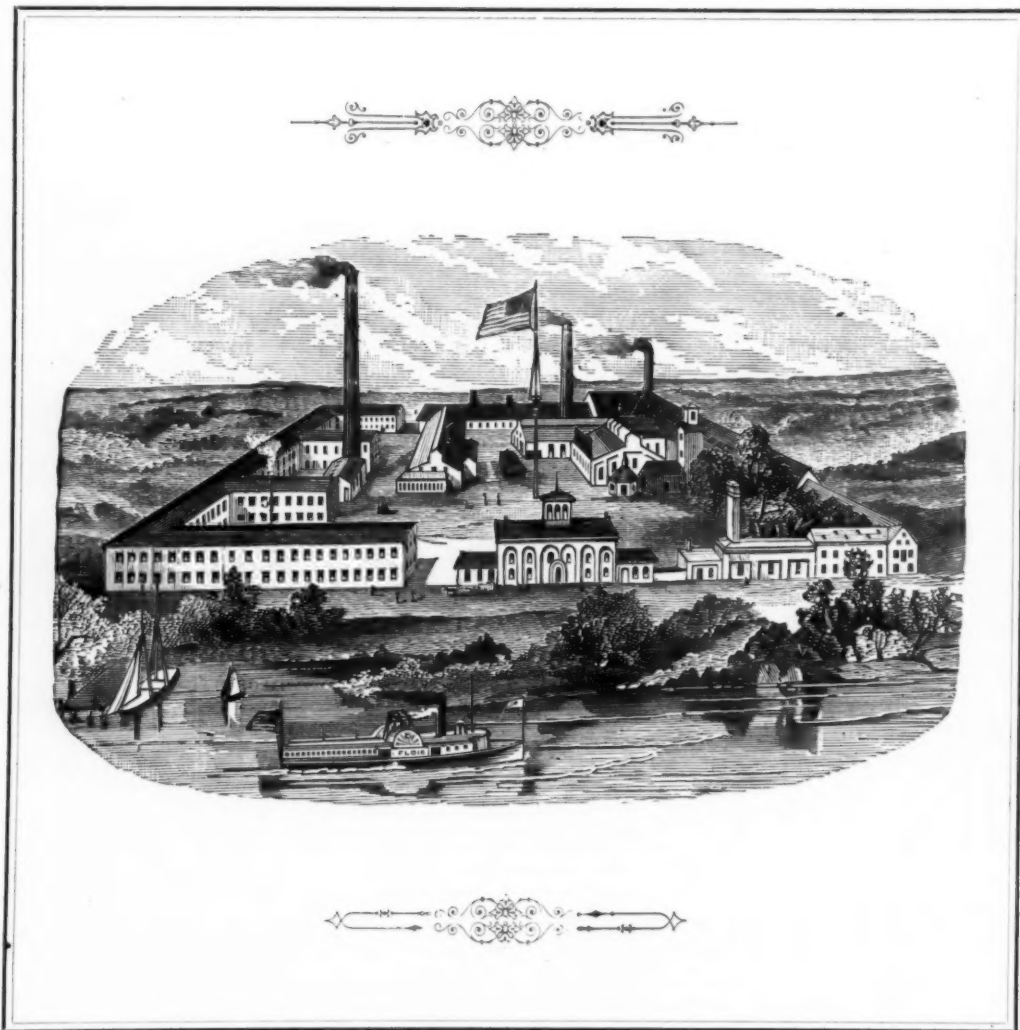
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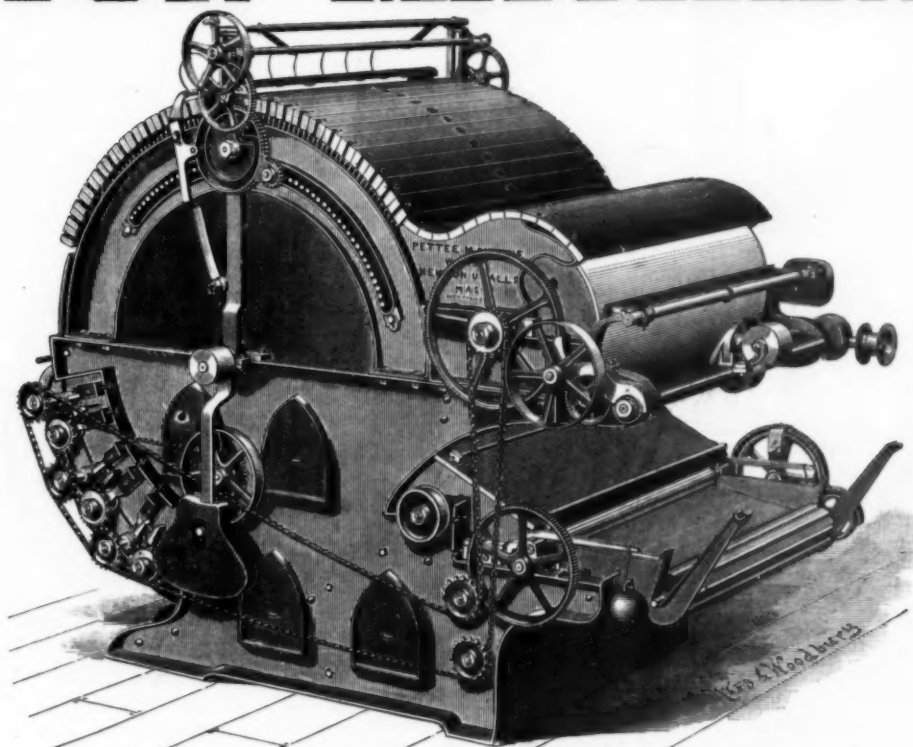
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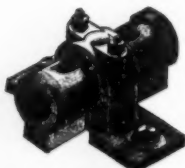
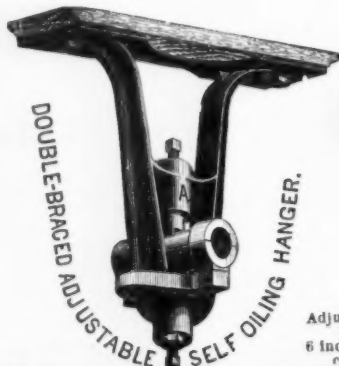
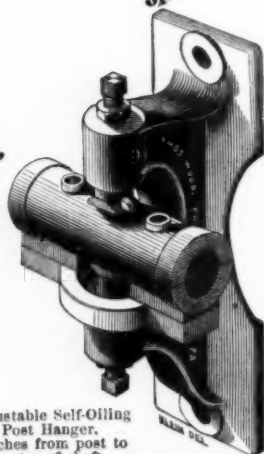
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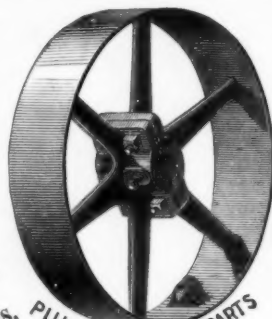
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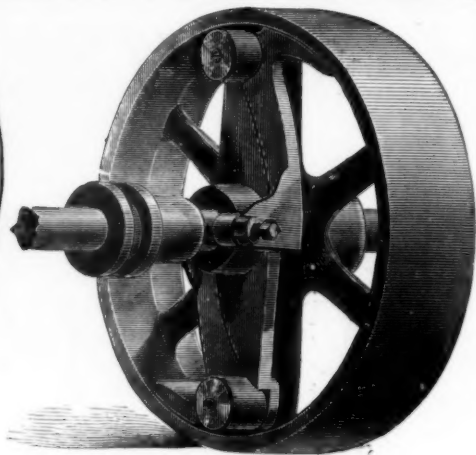
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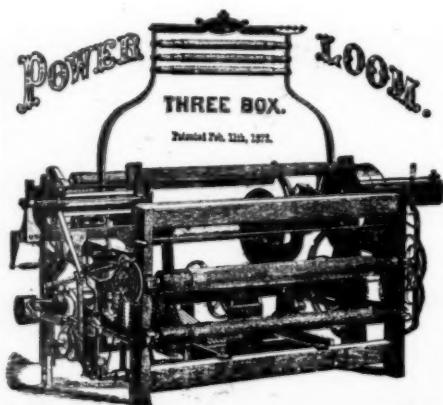
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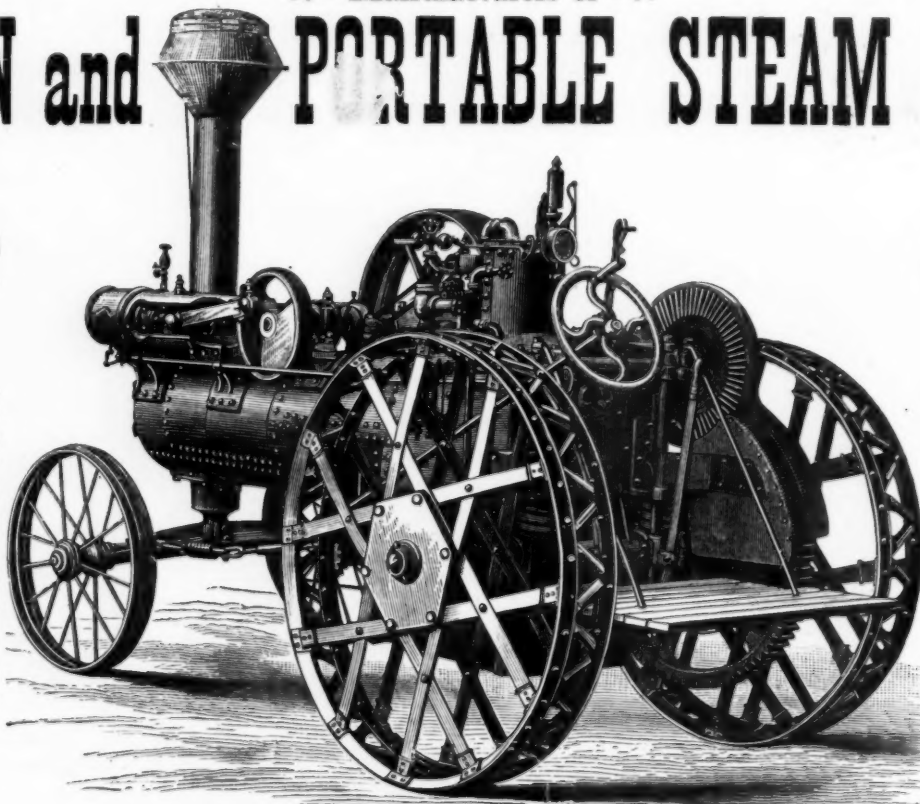
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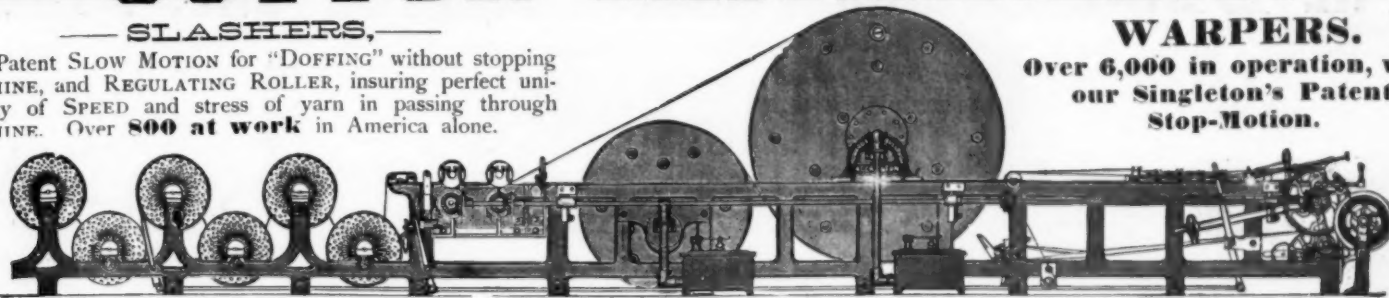
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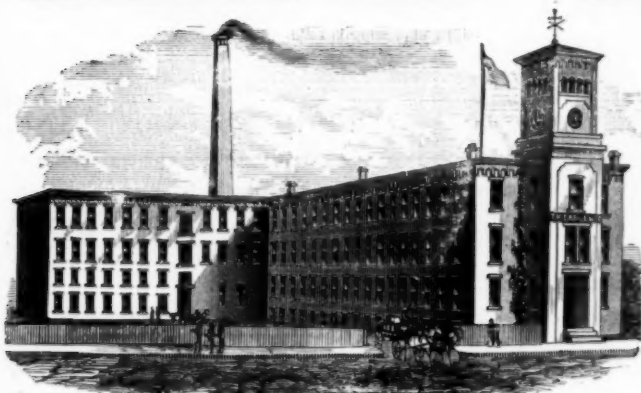
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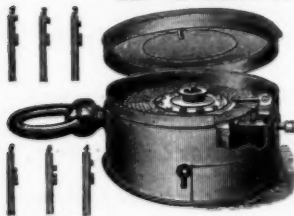
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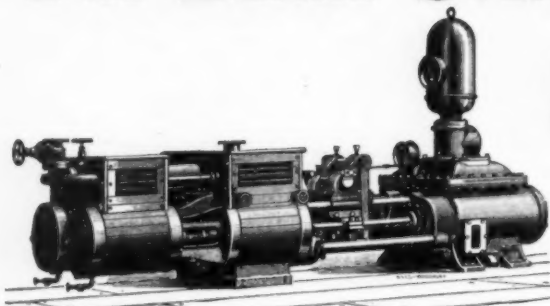
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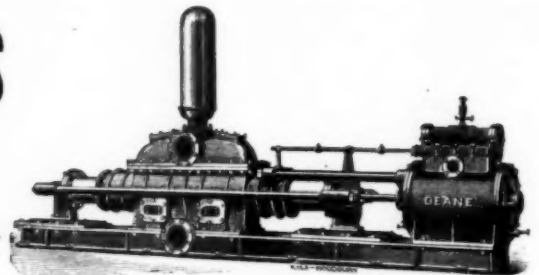
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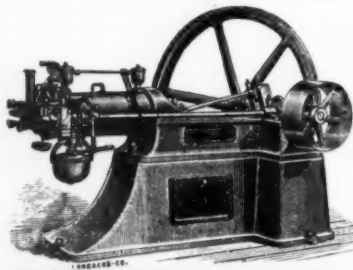
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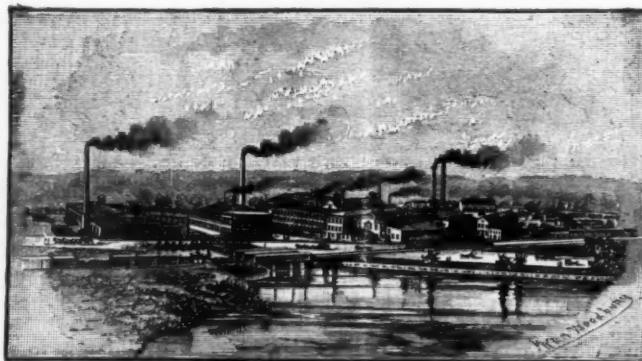
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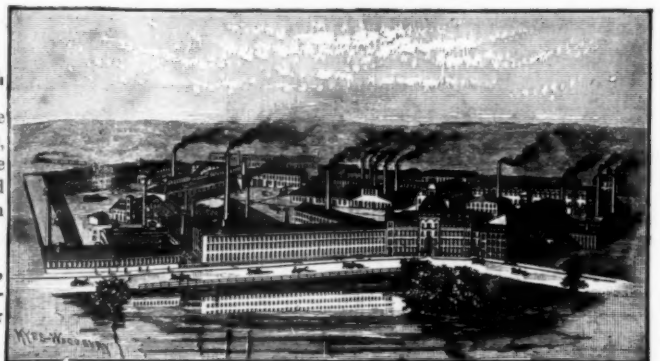
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See Prices next issue of this Paper.



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BALTIMORE Manufacturers' Record.

PUBLISHED EVERY SATURDAY.

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BALTIMORE, MARCH 15, 1884.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. We invite those interested in the development of the South to make free use of our columns. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more,—so if you desire to attract immigration or capital, or if you know of an opening for profitable investment in manufacturing, mining or kindred pursuits, write us an account of it. It will be published free of cost.

A SHORT time ago several Pennsylvania mechanics who had about \$5,000, with which they wished to start a foundry in some growing Southern town, put a notice to that effect in our free "Business Chances" Department, requesting the replies to be sent to us. From a large number of places in the South we have received offers to these gentlemen, in which the advantages and needs of different localities were clearly set forth. As a result they will be able to know just what point presents the most inducements for them without the expense of travelling to find out. If any of our readers have money to invest in Southern enterprises of any kind it will not cost them anything to advertise that fact under our heading "Business Chances," as that column is free for such purposes, and they will be sure to hear of many good openings.

A Reply to a Criticism.

The BALTIMORE MANUFACTURERS' RECORD is a high protection organ, and its statements as to the uncommon growth of manufactures in the South may be scrutinized. Over twenty-eight millions increase in two months is "pretty steep." There is steady improvement in the South in manufacturing of various kinds, but we doubt if the increase is so great as represented. North Carolina is credited with a million and a quarter for sixty days. We would like to see the items.—Wilmington (N. C.) *Star*.

The insinuation in the above that we would purposely publish false statistics to help the cause of protection must be due to the fact that the *Star* judges other papers by itself, and supposes that they, too, are lacking in honor and integrity. We assure the *Star* that the editor of the MANUFACTURERS' RECORD has too much regard for the truth to make misrepresentations for any purpose, even if the *Star* is incapable of understanding how such a thing can be.

The MANUFACTURERS' RECORD is laboring for the upbuilding of the South, and it rejoices at the marvelous development of the manufacturing interests of that section. We appreciate, however, the importance of due care in avoiding all exaggerations about the advantages or growth of that section. The truth itself in this particular is wonderful enough. But as the *Star* wants to "see the items" regarding that State, we mention the leading new manufacturing and mining enterprises inaugurated in North Carolina since Jan. 1, 1884.

A machine shop in Winston.
Cotton mill at Rock Creek.
Fire-proof paint factory at Charlotte.
New mill at the Reedy River Factory.
Company to mine and manufacture iron ore in Gaston county; capital \$250,000.
New foundry at Plymouth.
New tobacco factory requiring 3,000,000 bricks, by Duke & Sons, at Durham.
Tobacco factory to employ 150 hands at Henderson.
Box factory at Asheville.
Copper mine company in Person county.
Tobacco factory at Winston.
Spike and handle factory at Statesville.
Enlargement of Askew's paper mill at Raleigh.
Flour mill at Lenoir.
Tobacco factory at Leaksville.
Tobacco factory at Mt. Airy.
Cigarette factory at Raleigh.
Sash, door and blind factory at Wilmington.
Two hundred thousand dollar cotton mill at Durham.
Large woolen mill at Durham.
Sash, door and blind factory at Durham.
Salem Iron Works to be enlarged.
Furniture factory by Northern capitalists.
Gold mine company in Nash county.
Cotton factory at Fayetteville.
Tobacco factory at Winston (No. 2).
Flour mill, spoke and handle factory at Fork Church.
Foundry and machine shop at Charlotte.
Tobacco factory at Winston (No. 3).
Flour, shingle and saw mill in Caldwell county.
Flour mill in Durham.
Steam marble yard in Greensboro.
Ice factory at Charlotte.
Additional factory for Durham Fertilizer Co.
Flour and grist mill at Gulf.
And, in addition to the above, a large number of saw mills and small manufactur-

ing enterprises, besides the increase of machinery in many factories and mills throughout the State.

Possibly the *Star* will now admit that, having seen the items, the amount is not overdrawn.

The *Recorder*, of Durham, N. C., says:

"Durham will add one million dollars to the manufacturing capital this year in cotton, woolen and tobacco factories. Eight hundred and fifty thousand dollars is already under way, and the residences to be built will average one for every day in the year. These are facts."

And yet one little paper in Wilmington thinks we have overstated the amount of capital invested in new enterprises in that State.

Good Management Needed in Southern Mills.

In our last issue our correspondent "Enterprise," writing from Brownsville, Tenn., said the reason why many industrial enterprises have been unprofitable in the South is because "we have not had practical men at the head, with mechanical knowledge to make the enterprises a success." This is undoubtedly true, and its importance is so great that the people of the South should give due heed to it. With the enthusiasm that has taken possession of the South for building up manufactures, there is great danger that many will be drawn into the establishment of industries, which, from lack of experience, they are not fully prepared to manage, and these are almost sure to meet with misfortune. The inexperience of the bulk of Southern people in manufactures is, of course, due to the fact that until lately the South was almost wholly an agricultural country, and to this may be traced a large proportion of the failures of Southern manufactures that have occurred, although, as we lately pointed out, the percentage of failures in the South is much less than in the North and West.

Men of experience and mechanical ability are as necessary to the success of manufactures in the South as in any other section, and no enterprise should be established unless it will have the proper kind of management. To neglect this precaution will be simply to waste the money raised for new enterprises. There are many Northern men of energy, skill and experience, who would be willing to furnish a fair proportion of the capital necessary to start new manufactures in the South, and there are many places in the South where men of this kind would be welcomed and where considerable money could be raised for any enterprise offering a good chance of success. In cases of this kind our newly-established "Business Chances" department will prove particularly valuable.

Our readers will confer a favor upon our advertisers and upon us, as well as benefit themselves, if, whenever they write to anyone advertising in this paper, if it is only for a catalogue, they mention that "your advertisement was seen in the BALTIMORE MANUFACTURERS' RECORD." A careful compliance with this request will be much appreciated.

Railroad Building in the South.

One of the pressing needs of the South is more railroads, for without their aid and influence the building up of the agricultural and manufacturing interests of that section must be most seriously restricted. Despite these facts, however, Southern law makers have persisted in hampering railroad owners by most unjust laws, which have naturally resulted in curtailing railroad building. It is worse than folly to expect capitalists to put their money into enterprises over which they can have no control, and until the people of the South force their legislators to deal more liberally with railroads they need not expect the advantage of much increase in railroad building. Upon this subject the Chicago Railway Review justly says: "Railways are undisputed developers and civilizers, and railway mileage is also deplorably small in the South in comparison with square areas; still, restrictive laws, such as that now declared unconstitutional, have been popular with the Southern legislators. Needing more than any other section of the country the aid of railway systems in its material growth, the South persists in enacting those measures which are adverse to the railway interest. The result is a most untoward stagnation in railway building in these hostile sections."

The Review publishes the statistics of railroad track laid in 1883, from which we compile the following:

	Miles.		Miles.
Arkansas.....	117.25	North Carolina..	46.96
Alabama.....	136.50	South Carolina..	42.70
Florida.....	194.00	Tennessee.....	50.50
Kentucky.....	78.00	Texas.....	75.00
Louisiana.....	117.10	Virginia.....	98.00
Maryland.....	14.50	West Virginia..	112.50
Mississippi.....	37.30	Total.....	1,608.10

These figures ought to have been twice as large as they are, and doubtless they would have been so but for the unwise railroad legislation of late years. If the people of the South want railroads they must offer some inducements for capitalists to build them, instead of treating railroads and their owners as enemies of the public.

THE Bureau of Immigration of Virginia, office in Richmond, has issued an interesting Bulletin of farms, factories, mill sites, &c., for sale along the James River Valley, Virginia, giving a long list of some very desirable properties that are offered at low figures. Prospectors for land, mines or timber property in Virginia, will find this Bulletin of much value.

THE American Manufacturer, of Pittsburgh, says the cost of making pig iron at that city is:

1½ tons of ore at \$8.50.....	\$12.75
1½ tons of coke at \$2.00.....	2.50
Lime.....	85
Labor.....	1.50
Incidentals, repairs, taxes, etc.....	1.00
	\$18.00

In this issue of the MANUFACTURERS' RECORD, Mr. F. J. Chapman, of Salem, Va., advertises for capital to build a furnace, the product of which he says could be put down in Pittsburgh at within \$16 a ton.

CONSTRUCTION DEPARTMENT.

We publish, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

INCORPORATED at Birmingham, Ala.,—the Boyle Coal and Coke Company; capital \$50,000, privilege of increasing to \$1,000,000. Geo. O. Walker, of Birmingham; C. B. Ash, of Marion, Ala.; J. E. Webb, of Greensboro, Ala., and others, incorporators. Milledgeville, Ga., will build a \$20,000 court-house.

RAILROAD to be built from Gaffney City, S. C., to Rutherfordton, N. C.

A LARGE railway depot is to be built in Austin, Tex.

CHAS. B. HAMMETT, Pacolet, S. C., has sold part interest in gold mine which will be vigorously worked. Considerable machinery already ordered.

TO BE incorporated in Virginia, the Lewis Spring Manufacturing and Supply Co., and the Richmond Dock and Dry Dock Co.

HEZIER & SCOTT are putting up saw mill at Catawba, Ky.

S. C. HURT & SON, millers, Lynchburg, Va., will erect a six-story addition.

\$125,000 has been raised for a cotton mill in Knoxville, Tenn., a site purchased, and building will be commenced very soon. A large woolen mill in same city is also probable.

INCORPORATED in Baltimore by John H. Winkleman, Wm. P. Polk and others, "My Maryland Whitewash Co.," capital stock \$10,000.

THE Iron Mountain Co. and the Pulaski Iron Company are seeking charters in Virginia.

INCORPORATED—Rorer Iron and Mining Co. of Roanoke, Va., and the Virginia Mining, Milling and Transportation Co.

THE Mount Pisgah Copper Mine, near Chestnut Gap, Fannin county, Ga., will be developed.

THE Atlantic and Great Western Canal Co., of Atlanta, provided certain privileges are obtained, propose to build a canal from the Chattahoochee river to Atlanta, Ga., which would furnish 30,000-horse power between these two points.

\$800,000 has been paid in for building the Colorado & San Angelo Railroad from Colorado, Tex., to San Angelo.

THE Knoxville (Tenn.) Street Railroad Co. will extend their lines.

ADDRESS of W. J. Rushton, reported last week as intending to build ice factory at Anniston, Ala., is Birmingham, Ala. Mr. Rushton will also enlarge his Birmingham ice factory.

EXTENSIVE machine shops are to be erected in Waycross, Ga.

J. T. FINGER will erect machine shop and agricultural implement factory at Newton, N. C.

A STREET car company is rumored for Pearsall, Texas.

NORCRAFT & DONALSON have commenced work on the new jail at San Marcos, Texas.

REPORTED that a cotton mill will be built near Quincy, Fla.

JAIL and court-house will be built at Enterprise, Fla.

WM. GALVIN, of Wytheville, Va., will run woolen mill at Martinsburg, W. Va.

THE Houston Brick Works, of Houston, Texas, incorporated; capital \$60,000.

MESSRS. OSTROM & JAMES, representing North. n capitalists, have paid \$18,000 to Fourqureaw & Code for water power and site near San Marcos, Texas, on which to construct a \$200,000 paper mill.

BEN. D. LEE, Belton, Texas, received contract for the \$65,000 jail at that place.

J. McIVER will erect new flour mill at Gulf, N. C.

RUMORED that the new \$3,000,000 consolidated company, noticed editorially, will at once build several more furnaces at Birmingham. The officers of the new company are: E. Ensley, president; J. C. Neely, vice-president; J. H. Smith, secretary; T. D. Radcliffe, treasurer; W. L. Gude, superintendent.

PHILIP E. HEDRICK, near Lexington, Davidson Co., N. C., is putting up saw and grist mill.

MURRAY VANDIVER, Wm. H. King and others, of Havre-de-Grace, Md., have organized the Havre-de-Grace Passenger Railway.

THE Blue Ridge Hotel Company, of Baltimore, invite proposals for enlarging their hotel at a cost of about \$40,000.

MESSRS. BREWINGTON & DORMAN, of Salisbury, Md., will remove tin-ware factory to Baltimore, a large building now being under construction for them.

MESSRS. GULLAHORN & BRO.'s new saw mill, at Cooper's Station, on the S. & N. Railroad, Ala., commenced work a few days ago. Capacity, 40,000 to 50,000 feet of lumber per day.

THE Consumers' Gas, Fuel and Light Co., of Chicago, will probably establish gas works in New Orleans.

THE Old Virginia Iron and Nail Works, now in operation at Lynchburg, Va., have been incorporated.

THE City Engineer of Louisville, Ky., has charge of improvements to be constructed in that city in the way of bridges, sewers, &c., that it is estimated will cost \$1,000,000.

THE Cragdale Cotton & Woolen Manufacturing Co., of Talladega, Ala., has been incorporated; capital, \$100,000. Dr. Wm. Taylor, R. H. Isbell, J. H. Johnson, J. P. Wood, W. G. Sears and W. H. Skaggs.

T. B. PARKER, Goldsboro, N. C., will establish steam factory.

THE Pine Bluff Lumber Co., Pine Bluff, Ark., is adding planing and molding mill.

TEMPLE & SHIPP furniture factory and pipe works, Chattanooga, will put in new machinery.

A Brush-Swan Electric Light Co. is organizing in Portsmouth, Va.

ULYSSES HOLTON is putting up saw mill at Bayboro, N. C.

JOHN C. NELSON and Chas. F. Brause, of Kingston, Tenn., will work coal mine near there.

A SORGHUM sugar mill is talked of for Somerville, Tenn.

INCORPORATED in Virginia, the Montgomery & Floyd Mining and Manufacturing Company.

THE Murfreesboro Machine Works, Murfreesboro, Tenn., just started, will manufacture engines, boilers, agricultural implements, &c.

C. F. GROOME, Warwick C. H., Va., chairman of committee, invites proposals till March 20 for building court-house.

JAMES D. SPENCE, Lawrenceville, Ga., invites proposals till March 24 for building large court-house.

THE Rorer Iron Co., of Roanoke, Va., have charter to construct a railroad through several counties. F. Rorer, of Roanoke, interested.

A. A. WALKER, of Eufaula, Ala., and others, will probably erect \$25,000 fertilizer factory at Apalachicola, Fla.

PRESIDENT W. H. YOUNG, of the Eagle & Phoenix Manufacturing Co., Columbus, Ga., estimates that the new cotton mill which that company propose to build, as previously reported, will cost about \$689,000.

W. H. PARKER, Newcastle, Ala., will erect spoke and handle factory.

THE Durham Cotton Mill, of Durham, N. C., previously reported, has organized, with capital stock \$150,000, of which \$90,000 is already paid in. President, James A. Odell, of Greensboro, N. C.; vice-president, J. M. Odell, of Concord; secretary and treasurer, W. H. Brandon. Work on building to be commenced at once. Will also build cotton-seed oil mill.

THE Baltimore & Ohio Railroad Co., of this city, are seeking a charter to build a \$2,000,000 elevated railroad in Baltimore; in addition to which they propose to build several extensive depots.

KENTUCKY WOOLEN MILL, Louisville, will build brick mill.

SCALLY & Co., Louisville, will erect \$6,000 building for foundry.

THE Electric Light and Power Co., Houston, Texas, are buying their machinery.

J. H. DRAUGHAN and F. L. Martin organized a planing mill company with \$25,000 cash capital at Texarkana, Ark.

NEGOTIATIONS are pending for building cotton factory at Huntsville, Ala.

A NEW water-works company is being organized at Birmingham, Ala.

T. L. SEWELL, of Macon, Ga., contemplates starting foundry in Brunswick, Ga.

C. G. SMITH, Clarksville, Tenn., will have a number of coke ovens built at his Crabtree coal mines.

H. C. WALLACE has commenced erection of planing mill at Kyle, Tex.

OWNERS of the Riddle Gold Mine, Talladega, Ala., will work it on a large scale.

WACO, Tex., will build a \$30,000 school-house.

POITEVANT & FAVRE, the big lumber firm of Pearlinton, La., will probably build another planing mill.

BURNED.

SAW and grist mill and gin of J. R. Coleman, Riverside, St. Clair County, Ala.

MILL of J. L. Ogburn, Flat Rock, N. C.

THE analysis of the tin discovered at King's Mountain, N. C., is so favorable that the company owning the mine have commenced making preparations for opening two tunnels, feeling assured that they have at last discovered a genuine tin mine. Dr. Henry Froehling, a chemist, reports that his assay of specimens of this ore yielded 68.08 per ct. of metallic tin.

Alabama's Coal Fields.

A dispatch from Birmingham says: Arrangements have been perfected to consolidate the Pratt Coal and Iron Company, the Alice Furnace Company, and the Linn Iron Company, all in or near Birmingham, into one organization, with \$3,000,000 capital. The property of the new company will be the most extensive coal and iron property in the United States, and will have about 100,000 acres of coal and iron lands, 500 coke ovens, and two blast furnaces, with a daily capacity of 150 tons. The Pratt Company is already mining from 2,500 to 3,000 tons of coal daily. The new company intends to build several new furnaces as soon as possible.

The large production of pig iron in the Birmingham region has prompted iron masters to take steps looking to the establishment of an Iron Exchange, and investments in Warrior coal lands are an every-day occurrence by Northern and Southern capitalists.

WE are often in receipt of letters from our Southern readers asking for information about different kinds of machinery which they wish to purchase, but do not find advertised, and would say that to accommodate all such we will mention their names and address, and kind of machinery wanted, without cost, under our "Business Chances." In that way they will soon hear from machinery manufacturers. As a general thing, however, our subscribers can find everything that can be needed in the machinery line by corresponding with our advertisers and mentioning the MANUFACTURERS' RECORD in their letters.

WE have received from the old Travelers Insurance Company, of Hartford, a copy of the official engraving of the Bartholdi Statue to be placed in New York harbor. It is the only correct picture of that noble gift, and faithfully represents to the eye the enormous statue, completed and in the midst of its magnificent surroundings.

THE Maryland Law Record, of this city, edited by Mr. J. L. Hanna, has appeared in an enlarged and improved form.

COL. I. W. AVERY, of Atlanta, the able, scholarly and gentlemanly journalist and author, arrived in the city last evening. He is at present writing up the material interests of Georgia for the Chronicle and for the BALTIMORE MANUFACTURERS' RECORD, and is doing good work for his State. He is a genial, popular man, as well as a masterly writer, and has a large and admiring constituency in Augusta.—Augusta (Ga.) Chronicle.

THE BALTIMORE MANUFACTURERS' RECORD is doing a good work for the Southern States in its review of the improvements going on in this section of the Union, and especially the great increase in the number of cotton factories, iron furnaces, coal mines, &c.—Advertiser, Montgomery, Ala.

The Rapid Growth of Columbus, Ga.

One of the Centres of Industrial Life in the South.

SOUTHERN DEPARTMENT
BALTIMORE MANUFACTURERS' RECORD,
COLUMBUS, GA., March 8, 1884.

Columbus is one of the leading manufacturing points of the South. It is the county site of Muscogee county, on the Chattahoochee river, and the terminus of a number of railroads—the South Western Division of the great Central R. R. system, the Alabama and Western connecting with the Atlanta and Montgomery R. R., the Mobile and Girard R. R., the North and South R. R. bending directly to Atlanta, and it is the terminus of the Cuthbert, Bainbridge and Columbus R. R., of which Mr. McLen-don, of Thomasville, is the president, concerning which I have written you.

Muscogee county was laid off in 1826 and Columbus was founded in 1828. In 1850 the county had 18,578 population, 30 manufacturing establishments and real and personal estate worth \$8,804,982. To-day Columbus alone, with her suburbs, has 24,000. That enterprising paper, the Enquirer-Sun, owned and managed by Col. John King, with two excellent lieutenants, Mr. Eugene Granberry and Mr. Johnson, ran a census department of its own a year back and found the aggregate to be 21,000. It has gone up since to 24,000.

Muscogee county is 23 miles by 18 miles and has 414 square miles. It has running in it the Chattahoochee river, and, among smaller streams, the Upatoi, Randalls, Noocheefaloochee, Bull, Standing Boy and West End water courses, upon which water powers lie in profusion.

Columbus is a spruce place, full of culture and energy. The truth is that Columbus, Atlanta, Augustus and Savannah make a quartette of cities hard to beat.

The manufacturing industries of Columbus may be tabulated as follows:

INDUSTRIES.	Capital.	Hands employed.	Wages paid.	Value raw material.	Value products.
Textile goods.....	\$3,896,338	2,818	\$536,719	\$1,093,888	\$2,180,080
Tanneries and leather goods.....	486	112	714	288,576	576,220
Iron and steel.....	322,000	30	11,388	35,003	18,431
Machine, tin and copper.....	30,500	47	35,000	42,000	501,200
Brick and tile.....	195,000	133	24,000	15,000	44,000
Printing and press.....	97,000	77	21,500	25,000	92,000
Clothing and tailors.....	80,000	68	14,500	75,000	92,000
Bagging and barrel.....	4,800	13	3,100	2,732	8,400
Tobacco and cigars.....	16,000	7	2,000	48,000	14,000
Blacksmithing.....	45,000	71	3,000	100,000	100,000
Other industries.....	231,771	806	112,000	180,000	384,324
Totals.....	\$5,364,100	4,196	\$949,308	\$2,443,700	\$4,151,680

This is a fine showing for this progressive place. Let us see what it includes: The only bagging factory in Georgia; five cotton mills for colored goods, one of them the largest establishment in the South, and one of the leading colored goods factories of America; the finest cotton seed oil mill in the South; the largest iron foundry South of Richmond; two clothing mills; two merchant mills; a large guano factory; a trunk factory, &c. Her cotton and woolen mills number eleven, (11) using three millions of capital and giving work to over 3,000 hands.

The Eagle and Phoenix Mills, the largest manufacturing establishment in the South, has a capital stock of \$1,250,000; an actual cash investment of \$2,500,000; a reserve fund of \$650,000; makes 100 styles of goods; pays out \$4,500 daily; produces

53,000 yards of cloth, 25,000 pounds of rope, 1,000 pounds of sewing thread and 400 pounds of yarn daily. This establishment has a savings bank, with over \$1,000,000 of deposits in it. The president is Mr. W. H. Young, a veteran cotton manufacturer, of 40 years experience, the founder of this vast concern, and its inspiring genius,—a gentleman of wonderful wisdom, enterprise and business sagacity. He is fully 77 years old, but his energy is unabated, and his brain power in full vigor. He has been the instrument of three great mills rising in his splendid system, and has brought before the stockholders the proposition to build another mill out of the surplus earnings of the concern, without levying a copper's assessment upon the stockholders. Mr. Young is a remarkable man, and he takes a father's pride in this two million and a half bantling, whose existence and growth and phenomenal management are so largely due to his extraordinary ability.

Well, this splendid array of manufacturing industries in Columbus, involving between five and six millions of dollars of capital, working over 4,000 hands, using two and a-half millions of raw material, and turning out over four millions of products, is a good achievement for a town that was about wiped out when the war closed, and had to begin afresh upon the ruins of every manufacturing establishment she had.

Columbus has doubled its population in a decade. It has a superb system of public free schools. It has never in its growth had as many improvements in process of construction as at this time. Real estate is active. Last month there were 30 recorded transfers of real estate, running from \$10,000 down, and summing up \$100,000.

Besides that excellent paper, the Enquirer-Sun, there is another sprightly and well-edited journal, the Times, owned and run by Mr. Thos. K. Wynne and Mr. De Wolf.

I shall have more to say of Columbus hereafter. I. W. AVERY.

The Water-Power of Upson County, Georgia.

SOUTHERN DEPARTMENT
BALTIMORE MANUFACTURERS' RECORD,
THOMASTON, GA., March 10, 1884.

Upson county, of which Thomaston is the county site, while a fertile and healthy county, is most attractive to the capitalist on account of its fine water powers for manufacturing purposes.

Thomaston is sixteen miles from Barnesville on the Central Railroad, on the branch road called the Upson County Railroad. This place must be a town of very unusually progressive spirit. It had the enterprise to build a local railroad to link it to civilization. And it has made a specialty of securing educational facilities for its young people. It has established a fine school, and, finding its school building too small, it has just constructed one of the handsomest school structures in the State at a cost of \$5,000, for which the town issued bonds. The house was planned and superintended by an Atlanta architect.

But, as has been stated, the splendid water powers of Upson county constitute her chief charm for the capitalist.

From the Chattahoochee river to the Savannah river, on a line drawn sixty or seventy miles North of Columbus, Macon and Augusta, are the finest water powers of the State. The difference in elevation between the mouth and sources of our rivers vary from 1,000 to 3,000 feet. Prof. Geo. Little, the State geologist of Georgia, thus reported to the governor:

"The principal water powers of Georgia are found North of a line passing through Columbus, Macon and Augusta. The waters of the branches, creeks and small rivers of this elevated region are accumu-

lated several hundred feet above the ocean level, and precipitated from the tough metamorphic rocks upon the lower tertiary country below, thus forming some of our most gigantic water powers, at an elevation entirely free from malaria, and immediately surrounded by the cotton-growing region of Carolina, Georgia and Alabama."

Upson county is one of the leading water-power sections in this range of country. It has a number of magnificent water-powers on Potato, Tobler and Ten Mile Creeks, which flow entirely across Upson county, emptying into Flint river, on the Southwestern boundary of the county. On Potato creek, in two miles of Thomaston, is power to run thousands of spindles and looms. In ten miles of Thomaston, on Tobler creek, are two established factories, the Waymanville and the Flint River, only a few miles apart; both pay large dividends on the investments, and they have made their proprietors wealthy since the war, who have thereby been enabled to make other investments. The old Rogers factory shoals on Potato creek, two miles from Thomaston, where the factory was burned during the war, is a grand fall mill power to run unlimited machinery.

The shoals on the same creek, two miles from Thomaston, belonging to Mr. T. J. Nelson, on another road, is considered one of the best water powers in the county. Upson county is full of these admirable water-powers, and it is claimed for her that she has more good water-powers than any other county in the State. They can be bought cheaply, controlled easily, and are convenient to the railroad, and they are in a healthy farm country.

There are a good many carp ponds in this county. I. W. AVERY.

MANUFACTURING.

Subscribe to the Baltimore Manufacturers' Record. Price \$3 per year.

BALTIMORE.

MESSRS. W. J. CLARK & BRO., pattern makers and hydrant manufacturers, N. Holliday street, report business as very encouraging, having received orders during the past week for a number of their well-known improved hydrants. The season, when fully opened, will bring in large orders from parties in the city and the South.

MR. GEO. M. LINDSAY, general Southern agent for Potter's belt hooks, alligator and falcon wrenches, and manufacturer of the patent pulley covering, reports his business as steadily increasing. He is constantly receiving large orders from manufacturers for this covering, which is guaranteed to effect a great saving in steam power. Manufacturers outside of the city are introducing the covering, and pronounce it a success.

MR. R. SWORMSTEDT, No. 18 East Falls avenue, general agent of Ewart detachable belting, reports his Southern trade greatly on the increase. Orders have come in quite lively, and from present indications the prospects look as if he will enjoy a large spring trade.

MR. WM. L. PETTIT, boiler manufacturer, No. 40 York street, is building a Scotch boiler for the steamer A. Brown, of Richmond, Va., and has finished a job on the steamer Helen, and completed general overhauling of the steamers Jane Moseley, Theodore Weems, Tangier, Maggie and Eastern Shore. He also furnished repairs for the steamers Henry Gibson, of the Inland and Seaboard Coasting Co. of Washington, Wm. Crane, Saragossa, Berkshire, and others. In addition to these jobs he has built a boiler for Messrs. Martin Wagner & Co. of this city.

MESSRS. H. BALDERSTON & SON, manufacturers of wire goods, 66 S. Calvert street, have more orders on their books at the present time than they have had for the corresponding time during the past five years.

MESSRS. JOHN T. COLEMAN & SONS, boiler makers, corner Holliday and Pleasant streets, are building a 125-horse power horizontal boiler, made of steel, for a firm in Washington, and are building a 40 and a 25-horse power upright boilers for firms in the city. They also have a large amount of repair work on hand.

IN GENERAL.

MR. B. B. BABINGTON, of Shelby, N. C., writes to the MANUFACTURERS' RECORD that he has just been on a trip through Polk county looking for minerals, and that on every small stream in the county he found men washing the sand and dirt for gold and silver and making good wages at it. One gentleman, Mr. Jas. B. Morris, of Rutherford, N. C., stated that he could take a shovelful of dirt from almost any hill in the county and by washing or panning it out get considerable gold, and that with good machinery gold mining there would pay almost as well as in California. He has often, so he says, picked up small nuggets of gold in the roads while travelling over the hills of that section. I was mainly looking for iron ore and mica, but found none of the former; and while some mica was discovered, it was too small to work profitably.

By the fire at the foundry in South Brooklyn, Thursday evening, February 28, the Lidgerwood Manufacturing Co. lost only a small portion of the large amount of patterns belonging to them. The various newspapers in New York and vicinity reported the loss from \$50,000 to \$70,000, whereas the total loss did not exceed \$6,000, the fire occurring in a room where, fortunately, very few patterns had been stored. The company lost no time in making new patterns, commencing the following day with a large force of pattern makers, and have, at this writing, made such progress that they will very shortly have new patterns equal to those which were destroyed. By the wise system adopted by this company of always keeping on hand a number of castings of the various hoisting engines manufactured by them, no delay has been occasioned in filling orders or building engines for stock.

THE Louisville (Ky.) Woolen Mills, J. W. Stine & Co., have recently placed an order with the Bridesburg Mfg. Co. for woolen cards and mules.

THE Arkwright Cotton Factory, Savannah, Ga., have put in a fine 250-horse power engine.

THE Chapman Iron Mines are now being mined extensively. They are located twelve miles west of Roanoke, Va., on Norfolk & Western Railroad. The mines have a capacity of daily output of two hundred tons of superior neutral ore.

THE Purgatory Iron Mines, near Buchanan, Va., are worked under contract.—This is an extensive mine of rich red shale ore, clearly stratified and cheaply mined. Their output can be increased to almost any desired amount of ore.

We have received the following circular:

To Cotton Manufacturers:
The Lowell Machine Shop, Lowell, Mass., would respectfully call the attention of cotton manufacturers to the fact that they are engaged in the business of mill engineering, as well as being the largest builders of cotton machinery in this country.

Carefully prepared plans, estimates, specifications and supervision furnished for the construction, equipment and organization of new mills, for the manufacture of all kinds of cotton goods.

Old mills reorganized, extended and improved.

Examinations and reports made as to the present condition of old mills, and of the practical methods of improving them; also attention given to all matters pertaining to the application of steam and water power.

Mill sites examined and reported upon. Mill engineering in all its branches. All who propose building new mills or reorganizing old ones would do well to consult us in the matter. Correspondence invited.

WM. A. BURKE, Treas.,
28 State street, BOSTON, MASS.
CHAR. L. HILDRETH, Supt.,
LOWELL, MASS.

E. A. OWEN, JR., Acting Mill Engineer.

THE New Albany Woolen Mills Company, of New Albany, Ind., who had one of their buildings destroyed by fire a short time ago, are at present occupied in rebuilding, and will in a short time be able to exceed their former capacity. They will put in Bridesburg cards and Gebhart looms.

New Planing and Smoothing Machine.

The accompanying cut is an illustration of a new machine for planing and smoothing, recently introduced by the Cordesman & Egan Co., of Cincinnati, Ohio, and designed especially to be run in connection with their new double-drum sand-papery machine, for which purpose it is to do the very finest work. Owing to the substantial manner in which it is built, and the peculiar arrangement of the pressure bars and bonnet, which come close up to the knives, smooth work is assured. The cylinder is double-belted. The feed is very powerful, and altogether it forms a machine that proves to be a paying investment.

The company have them in operation all over the country, and it is said that they are pronounced by those who use them to be the best smoothing planer made.

For full description of the construction and capacity of the machine, we give the following extract from company's catalogue:

The frame is strong and solid, and is specially designed for great stiffness. The

Sand Papery Machine for Furniture and Cabinet Makers, Chair and Bracket Factories, Carpenters, Planing Mills and other wood workers, as it has all the requisites for doing the very smoothest work, having a pressure bar close up on each side of the knife, and it is strong enough to do general planing in first-class style in any kind of lumber.

This planer is made in two sizes, to plane either 24 or 30 inches wide, and 6 inches thick.

The T. and L. pulleys on countershaft are 12x6½ and should run 930 revolutions per minute. For cuts and prices, &c., &c., address Cordesman & Egan Co., 228 to 248 W. Front St., Cincinnati, Ohio.

A Growing Southern Town.

An Opening for Capital.

COLUMBIA, TENN., March 1, 1884.

Editor Baltimore Manufacturers' Record:

The Columbia Cotton Mill Co. has been regularly chartered and organized, J. M. Mayes, J. P. Street, A. W. Stochill, George Childress, Robt. M. McKay, W. C. Jones and G. T. Hughes as the first board of

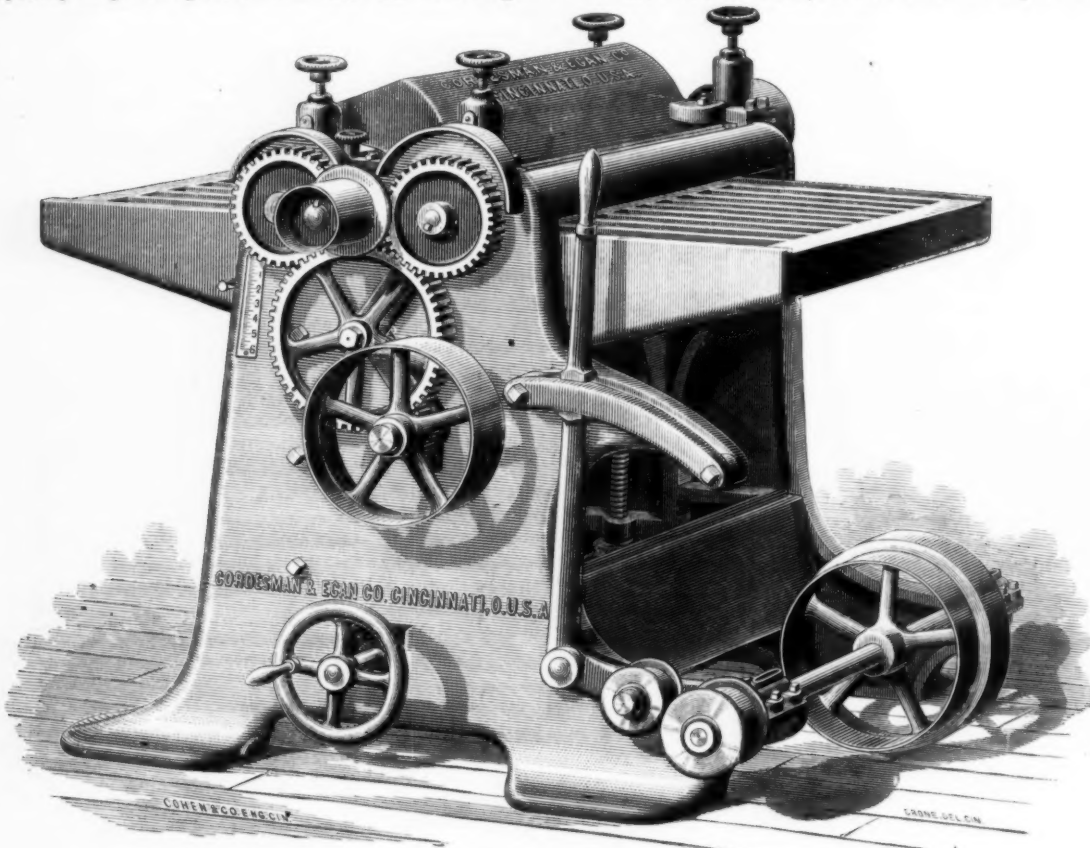
The Columbia water works are now completed, and they are the cause of so much attention being given to manufacturing at present.

A great many residences are being built here at present, and all kinds of skilled labor can readily find employment at good wages.

COLUMBIA.

T. K. Earle Manufacturing Co., Manufacturers of Machine Card Clothing.

The above firm, notwithstanding the present dull trade, are working full time on their superior make of card clothing, especially their clothing set with patent hardened and tempered cast-steel spring wire, which is manufactured by Messrs Jas. Royston, Son & Co., of Halifax, England, said to be the best wire of its kind in the world, and for which they are the sole agents in the United States. They have also orders for their cloth and rubber card clothing for cotton, woolen and worsted mills, and furnish rubber-faced cloth from 2 to 6-ply, and cotton cloth of 4, 5, 6-ply, and upwards. Not only do they excel in the above, but have made for the past twelve



NEW PLANER AND SMOOTHER.

table raises and lowers in planed slides in the sides of machine. The slides are gibbed in such a manner that any wear or vibration can be instantly taken up by screws on the outside of frame.

A pressure bar is placed in rear of head, so that the lumber is held firmly as it comes from knife.

The patent bonnet which covers head has an extension which comes down in front of knife; this is very heavy and strong, and holds the board firmly as it is fed to the cutter, thus forming a combined pressure bar and chip breaker.

The feed is very powerful and steady, and consists of four five-inch rolls, and has two changes on cone. Can be instantly started and stopped by lever on side. Feed rolls are given their pressure by spiral steel springs, and any pressure can be instantly given them, thus insuring a very even feed.

The cylinder is of steel, is double belted, and runs in very wide oiling-boxes, lined with best Babbitt metal.

This machine is specially suitable to run in connection with our New Double Drum

directors, and they have elected J. M. Mayes, president; J. P. Street, vice-president; Geo. Childress, secretary; and W. C. Jones, general manager and treasurer. The capital stock will be \$100,000, with a bonded indebtedness of \$75,000, making \$175,000 invested. W. C. Jones leaves next week for the East to buy necessary machinery. W. C. Jones guarantees ten per cent. dividend on capital stock.

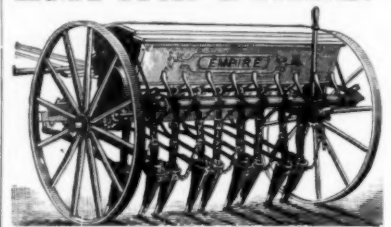
The stockholders of the Nashville & Florence Railroad Company, which railroad runs from here to Lawrenceburg, Tenn., thence to Florence, Ala., had a meeting here last Tuesday and elected a board of directors. They also decided to execute a mortgage and issue bonds for \$1,000,000, with which to pay off indebtedness and extend two branches of this road, one to Whitthorne iron-ore banks and the other to Napier's iron furnaces. This road runs through the finest ore bank in this country, with heavy timbered forests, and these branches will bring iron ore at our doors. What we next need is an iron furnace here, which could be easily built, and would be greatly assisted by home capital.

years the celebrated "Horsfall's Double and Single-Cover English Wool Cloth," a cloth that is not affected by oil or temperature, is free from joints, and is more uniform and stronger than leather.

This is the oldest card clothing factory in the United States, being established by Pliny Earle in 1786, and still holds a foremost place for excellent workmanship. They inform us that they will cheerfully send samples of their clothing to any mill contemplating the buying of new clothing, and advise any who wish "the" card to try their patent hardened and tempered cast-steel spring wire, which is suitable for all kinds of carding. For catalogues, &c., address Edwin Brown, treasurer, Worcester, Mass.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the BALTIMORE MANUFACTURERS' RECORD. We are always prepared to furnish proof of our claims as to circulation.

EMPIRE DRILL.



With Force-Feed Fertilizer Attachment.

Any brand of commercial manure sown with accuracy. **NO GUESS WORK.** Over 8,000 in use, giving unbounded satisfaction.

Sheldon Self-Dump RAKES and Excelsior Horse-Poke.

All three implements first-class in every respect. Address inquiries to

EMPIRE DRILL CO., 10 Swan St., Baltimore.

ENGINES, BOILERS, &c. For Sale Low.

- 1 Porter Horizontal Engine, 50-H. P. New
 - 1 " " " 18-H. P. "
 - 1 " Portable " 25-H. P. "
 - 1 " " " 4-H. P. "
 - 1 Birdsall Traction Engine, 10-H. P. "
 - 1 " Portable " 10-H. P. "
 - 1 " " " 8-H. P. "
 - 1 " Semi-Portable Engine, 8-H. P. New.
 - 1 Wood, Tabor & More, 8-H. P. Second hand.
 - 1 Curley Saw Mill, No. 2. New.
 - 1 Novelty Saw Mill. New.
- Also Engines, both Portable and Stationary, any size, or any size or description of Boilers. The Gardner 3-Cylinder Engines. Snyder's Little Giant Engines and Boilers. Low Prices guaranteed. Send for Estimates, stating size wanted and purpose to be used for, to

WM. R. EMERSON,
6 and 8 North Liberty St.,
BALTIMORE.

THE PERFECT Towel Holder

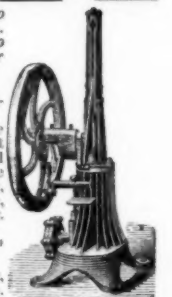
is selling very fast in the East, and is meeting with well-merited success. This little article should be in every place where a towel is used, as it saves towels and at the same time saves trouble. We will send a sample with prices for 15 cts., or a sample dozen for \$1.00.

**Haff & Co., Box 24,
HARTFORD, CONN.**

Patent applied for.
Cut Half Size.

THE SOMBART Gas Engine

PATENT
Started Instantly. No Fire to Build. No Boiler to Watch. No Engineer Required. No Coal nor Ashes. No Water Needed.
NO DANGER OF EXPLOSION!
Four Sizes, ½, ¾, 1 and 1-horse-power, (Actual.)
When stopped all expense ceases. The most convenient and cheapest Motor for small power ever made. Just the thing for Printing Offices, Laundries, Jewelers, Saddlers, Coffee Mills, Small Shops, etc.
**Sombart Gas Engine Co.,
HARTFORD, CONN.**
For sale by Jackson & Tyler, 16 S. Howard St., Baltimore.



If you are not already a subscriber to the Baltimore Manufacturers' Record, send us \$3 and you will receive it regularly for one year or six months for \$1.50.

The Hardy Card Grinder.

Among the many devices in the way of improved machinery for use in cotton and woolen mills, we can recall to mind none that has at once proved more universally satisfactory, or a machine that is at the present time more indispensable to all manufacturers engaged in the reduction of fibrous material to yarns or cloths than that which is illustrated on this page—the Hardy Card-Grinder—manufactured by the Hardy Machine Company, of Biddeford, Maine. Manufacturers of woolen

and even with the attainment of the correct principle there yet remained very much to be accomplished owing to the peculiar nature of the mechanism used in embodying that principle. To Mr. Charles Hardy must be ascribed the credit for having been the first to introduce in the Hardy's Improved Traverse Emery Wheel Card-Grinder what may be termed as the perfection in the manner of grinding cards.

So greatly needed were these machines that a large factory, three stories high, was devoted expressly to manufacturing them. The products of this factory, or "Hardy's

possible condition for doing good carding. The machine has also patent adjustable stands, enabling it to grind the Doffer and Main cylinder, both at the same time, or separately, as preferred.

The grinder, as now improved, can be run at any reasonable speed, or traverse without the least tremble, and with ordinary care will run many years without needing repair. It is adapted for grinding cotton, woolen, linen, silk or jute cards, or for any kind of stock whatever that can be carded.

The Hardy Machine Company also manufacture the Hardy Improved Top Flat Grinder, which grinds quickly and perfectly 1 to 4 or 1 to 6 tops at one time, with cylinder brush for cleaning out the tops before grinding. This machine will grind two widths of cards, if desired. They also make the Hardy Improved Cylinder Grinder, which grinds 2, 4 or 6 workers, strippers, lickierins, rollers, etc., (small cylinders) at one time. These are sold in large numbers to grind the Gambrell and other makes of cards, to cotton mills, and for the most makes of cards running in woolen mills. They give great satisfaction. They also manufacture the Hardy Improved Top Flat and Cylinder Grinder, which grinds perfectly three tops and two small cylinders at the same time. These are used largely for the Foss and Pevey new card and the Whitin new combination card.

Besides these card grinders the company make the Hardy Improved Shear Grinder, for grinding cloth-shearing machine knives; both fly and ledger blades at same time. This machine is built entirely of iron and steel, and, it is claimed, will do the work quicker and better than any other machine and at one-quarter the expense.

They also manufacture the Hardy Improved Emery-Wheel Knife Grinder, for grinding any kind of long knife requiring a sharp and even edge. It grinds a knife true, any bevel desired, quickly and without heating.

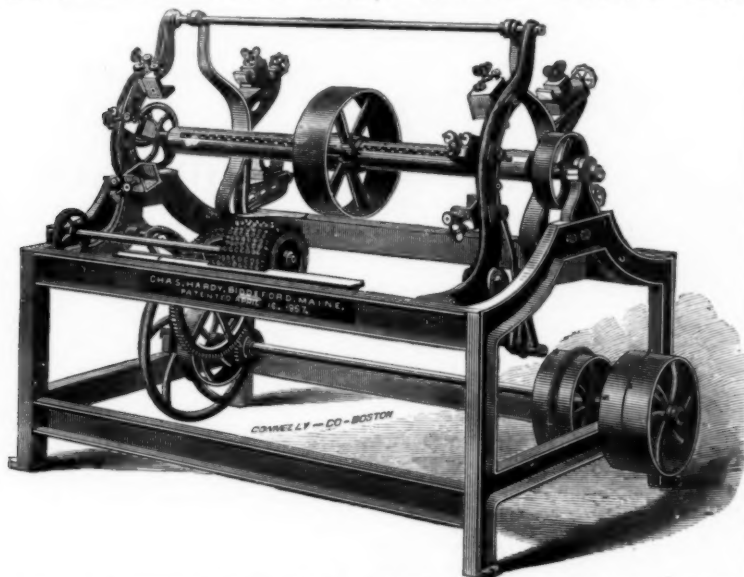
And last, but not least, they manufacture the Hardy Improved Calender Roll Grinder. This, with adjustable stand to run in, grinds the calender rolls used in print works, paper mills, bleacheries, etc., without removal from frame, at one-eighth the usual cost and trouble.

The company issue a pamphlet giving illustrations of these different machines, and directions how to use them and keep them in good condition. Our manufacturing friends will receive one of these pamphlets on application to the "Hardy Machine Company, Biddeford, Maine."

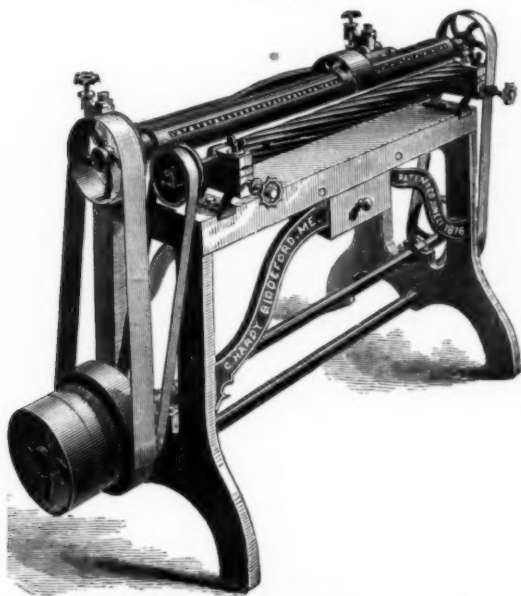
List of Patents.

The following patents were granted to citizens of the Southern States, bearing date Mar. 4, 1884. Reported expressly for this paper by Louis Bagger & Co., mechanical experts and solicitors of patents, Washington, D. C.

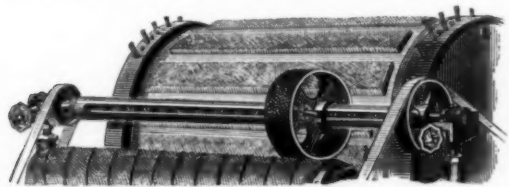
- 294,355. Bandy, N. B., Galveston, Texas. Type holder.
- 294,729. Bissett, Jean, Houston, Texas. Lubricator.
- 294,574. Briggs, R. H., & C. Prichard, Whistler, Ala. Car.
- 294,437. Brindle, Daniel B., Martinsburg, W. Va.—Lubricator.
- 294,578. Caldwell, J. O., Goshen, Ga. Plow attachment.
- 294,593. Dixon, Jos. L., Falmouth, Ky. Twin bed spring connector.
- 294,594. Dodd, Alexander, Baltimore, Md. Sales man's sample-trunk.
- 294,604. Fountain, S. H., Amite City, La. Cotton scraper and cultivator.
- 294,735. Hess, Daniel, Atlanta, Ga. Grinding mill.
- 294,629. Jenkins, G. R., Weston, Ky. Fire-escape.
- 294,637. Kreisel, Otto, Baltimore, Md. Knit jacket.
- 293,393. Laughlin, J. L., Louisville, Ky. Harrow.
- 294,480. Lovell, W. A., Bangor, Ark. Lubricator.
- 294,492. Lytle, F. M., & J. A. McCoy, Baltimore, Md. Telephone—central-office apparatus.
- 294,488. Matthews, Luther, Paris, Texas. Corn-sheller.
- 294,651. McCord, L. A., Clinton, S. C. Paper-file.
- 294,491. Mestler, Jno. U., Corpus Christi, Texas.—Pistol—game apparatus.
- 294,743. Nerrell, H. D., Richmond, Va. Reversible sectional lap-joint railway-rail.
- 294,502. Pegram, T. H., & J. H. Kester, Winston, N. C. Car-coupling.
- 294,507. Rosenthal, Sophie, Baltimore, Md. Under garment.
- 294,687. Seibert, Geo., Wheeling, W. Va. Medical compound.
- 294,698. Stansberry, A. D., Colliers, W. Va. Car-coupling.



THE HARDY IMPROVED TRAVERSE EMERY WHEEL CARD TOP FLAT AND CYLINDER GRINDER.



THE HARDY IMPROVED TRAVERSE EMERY WHEEL SHEAR GRINDER.

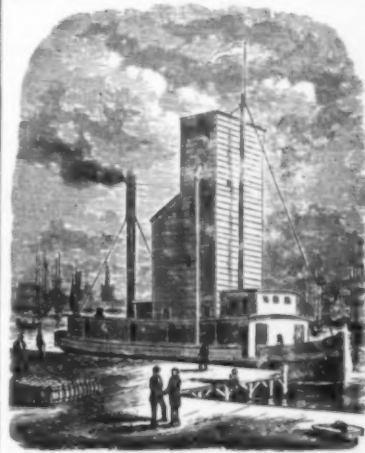


THE HARDY IMPROVED GRINDER, grinding the doffer and main cylinder, both at the same time, or separately, as preferred.

and cotton fabrics are well aware that to produce good cloth there must be good carding; and, as an essential to good carding, there must be sharpened wire,—not only sharpened, but properly sharpened, wire. This is a self-evident fact long recognized by manufacturers generally, and many devices have been called into existence to grind card wire, all of which attempts, however, it is said, have failed in not being able to grind the surface of the cylinders and doffers absolutely true. The first employment of a correct principle was in the advent of that style of grinder known as the Traverse Wheel Grinder,

Grinders," as they are usually called, have outsold all others, and have become the standard in America and in most of the European mills.

Among the many advantages claimed for this machine, and that which has enabled it to supersede others, is the fact that the grinding wheel traverses its whole width out by the range of teeth at each end before changing, thus grinding all the teeth alike. This is important, and cannot be done by any other machine. It leaves a true and even surface, with all the card-teeth ground to a needle or diamond-like point, free from wire edge, and in the best



F. H. FOLSOM,
Millwright and Mechanical Engineer,
18 East Falls Ave., BALTIMORE, MD.

All work executed and Drawings furnished at shortest notice for Floating and Stationary Elevators, Flour Mills, Malt Houses, Breweries, Saw Mills, Fertilizer Factories, Sumac Mills, Paper Mills, and all other kinds of Machinery.—Orders by mail promptly attended to at lowest prices.



Agent for Seldner's Improved Belt Fastener.
—Send for Circular and Sample.—

Derby Roll Top Desks.

—Best Office Desk in the World.—



Cherry, Walnut, Oak, Ash and Mahogany.

—Send for Illustrated Catalogue.

Geo. H. Derby & Co.
55 Charlestown St., Boston, Mass.

E. J. CODD & CO.

Foundry, Machine and Boiler Works,

255 to 261 S. Caroline St., BALTIMORE.

—BUILDERS OF—

Stationary and Marine Boilers, Stills, Tanks, Agitators, Kettles, &c. Stationary and Marine Engines, Fertilizing Mills, Steam Dredges, &c. Prompt attention given to Steamship, Mill and other Repairs. Iron and Brass Castings made to order.

—ESTABLISHED 1865.—

Steam Boilers

JOHN T. COLEMAN & SONS,
Steam Boiler Works,
Cor. Holliday and Pleasant Sts., Baltimore.

Manufacturers of all kinds of Steam and Bath Boilers, Smoke Stacks, Water Tanks, Lard Kettles, &c. Particular attention given to repairs.

WIRE RAILING

and Ornamental Wire Works.

DUPOR & CO, 36 N. Howard St., Baltimore.
Wire Railing for Cemeteries, Lawns, Gardens, Offices and Balconies; Window Guards, Tree Guards, Wire Cloth, Sieves, Fenders, Cages, Sand and Coal Screens, Iron Bedsteads, Chairs, Settees, &c.

Chattanooga Iron Market.

Specially reported by S. B. Lowe.

CHATTANOOGA, TENN., March 10, 1884

The incessant rains for the past few days have materially affected the character of the output of the furnaces, and best grades foundry irons are scarce. We note a stiffening up of some kinds of heavy goods, but otherwise prices remain unchanged, and we quote as follows:

No. 1 Foundry.....	\$18 00	@19 00
No. 2 Foundry.....	17 00	@18 00
Gray Forge.....	14 00	@15 00
White and Mottled.....	—	@14 00
Car-Wheel Metal.....	24 00	@25 00
Ores, Brown and Red.....	1 50	@2 00
Furnace Coke.....	2 00	@2 50
Coal Manufacturing, per bar.....	5 1/4	@6 1/2
Nails, car load lots.....	2 50	@—
Bar Iron.....	1 85	@—
Old Rails.....	22 00	@—
Old Wheels.....	16 00	@17 00
Wrought Scrap, No. 1.....	16 00	@—
No. 2.....	12 00	@13 00
Cotton Tie Clippings.....	10 00	@—
Cast Scrap.....	10 00	@2 00
Spikes Railroad.....	7 50	@—
Spices.....	1 50	@—

BRASS.

ROLL AND SHEET BRASS.

Brown & Sharpe's Gauge the Standard.

New List, Jan. 17, 1881.

Dis 10 @ 30 %

COMMON HIGH BRASS.

Wider than	2	10	12	14	16	18
and including	10	12	14	16	18	20
To No. 30, inclusive.....	31	32	33	34	35	36
Nos. 21, 22, 23 and 24.....	31	32	33	34	35	36
Nos. 25 and 26.....	32 1/2	33 1/2	34 1/2	35 1/2	36 1/2	37
Nos. 27 and 28.....	33	34	35	36	37	38
Add 9 cts. ∇ lb. for sheets cut to particular widths and lengths.						
Add 5 cts. ∇ lb. additional on each number thinner than Nos. 28 to 38, inclusive.						
Brass thinner than No. 38 is Platers' Brass.						
Printers' rules.....	55	55	55	55	55	55
Printers' Sheets and Plates cut to particular sizes and lengths to No. 30, inclusive.....	50	50	50	50	50	50
Brazing, Spinning and Spring Brass, one cent more than common High Brass.						
Low Brass four cts. ∇ lb. more than common High Brass.						
Gliding, Ordel and Bronze seven cts. ∇ lb. more than common High Brass.						

SPLITTING METAL.

Add to list as follows:

Over 1/2 in. to 2 in., inclusive, Nos. 12 to 20, inclusive.....	1
Over 1/2 in. to 1/2 in., inclusive, Nos. 12 to 20, inclusive.....	1
1/2 in. and narrower, not less than.....	4
Over 1/2 in. to 2 in., inclusive, Nos. 21 to 28, inclusive.....	1
Over 1/2 in. to 1/2 in., inclusive, Nos. 21 to 28, inclusive.....	2
1/2 in. and narrower, Nos. 21 to 28, inclusive, not less than.....	6
Over 1/2 in. to 2 in., inclusive, Nos. 29 to 32, inclusive.....	1 1/2
Over 1/2 in. to 1/2 in., inclusive, Nos. 29 to 32, inclusive.....	3
1/2 in. and narrower, Nos. 29 to 32, inclusive, not less than.....	12
Over 1/2 in. to 2 in., inclusive, No. 33 and thinner.....	3
Over 1/2 in. to 1/2 in., inclusive, No. 33 and thinner.....	6
1/2 in. and narrower, No. 33 and thinner, not less than.....	18
Split Metal cut to particular lengths, ∇ lb. additional.....	5

PLATERS' OR GOLD METAL.

In bars.....	40c.
In ingots.....	43c.
In ingots, planed or polished.....	44c.

WIRE IN COILS.

Old English gauge the Standard.

	Common High Brass.	Low Brass.	Gliding, Bronze and Copper.
All Nos. to No. 16, inc.....	32	30	30
Nos. 17 and 18.....	33	31	31
" 19 and 20.....	34	32	32
" 21.....	35	33	33
" 22.....	36	34	34
" 23.....	37	35	35
" 24.....	38	36	36
" 25.....	39	37	37
" 26.....	40	38	38
" 27.....	41	39	39
" 28.....	42	40	40
" 29.....	43	41	41
" 30.....	44	42	42
" 31.....	45	43	43
" 32.....	46	44	44
" 33.....	47	45	45
" 34.....	48	46	46
" 35.....	49	47	47
" 36.....	50	48	48
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" 38.....	52	50	50
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" 71.....	85	83	83
" 72.....	86	84	84
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" 74.....	88	86	86
" 75.....	89	87	87
" 76.....	90	88	88
" 77.....	91	89	89
" 78.....	92	90	90
" 79.....	93	91	91
" 80.....	94	92	92
" 81.....	95	93	93
" 82.....	96	94	94
" 83.....	97	95	95
" 84.....	98	96	96
" 85.....	99	97	97
" 86.....	100	98	98
" 87.....	101	99	99
" 88.....	102	100	100
" 89.....	103	101	101
" 90.....	104	102	102
" 91.....	105	103	103
" 92.....	106	104	104
" 93.....	107	105	105
" 94.....	108	106	106
" 95.....	109	107	107
" 96.....	110	108	108
" 97.....	111	109	109
" 98.....	112	110	110
" 99.....	113	111	111
" 100.....	114	112	112

Spring Wire, 3 cts. ∇ lb. advance.
Whitened Wire, 3 cts. ∇ lb. advance.
Flat, Square and Half-Round Wire 4 cts. advance on Round Wire.
Fancy Wire not less than 10 cts. advance on Round Wire.

Spooling on one-pound spools 12 cts. ∇ lb. extra.
Spooling on ten-pound spools or more, 3 cts. ∇ lb. extra.

BRASS TUBING.

	Per lb.
Brown & Sharpe's Gauge the Standard for all Tubing.	
Plain, to No. 20, inclusive.....	35
Above 5-16 inch to 3 inches, inclusive.....	45
Plain, to No. 30, above 3 inches.....	45
" 5-16 inch to No. 20.....	45
" 1/2 inch.....	60
" 3-16 inch.....	1 00
" 1/2 inch.....	1 50

Bronze Tubing 3 cents per pound more than Brass.
Nos. 21, 22, 23, two cents advance on list for each number.
Nos. 24, 25, 26, four cents advance on list for each number.
Above No. 26, special rates.
All Mandrel-drawn Tubes, 1/2 inch and above, five cents advance on list price.
All Mandrel-drawn Tubes under 1/2 inch, twenty-five cents per pound advance on list price.
Fancy Tubing to No. 30..... \$40 43
English, Scotch and Extra Pattern Fancy Tubing to No. 20..... 48
Tubing sawed or cut, 2 to 4 feet long, one cent advance on list.
Add to on: cent one-half cent for each additional cutting under two feet.

PAINTS, OILS, &c

PAINTS.

Black Lamp, coach painters.....	\$10 30c
Black Lamp, ordinary.....	10 6c
Black Ivory Drop, fair.....	12 @15c
Black Paint, fair to best.....	23c
Blue Prussian, in oil.....	45 @55c
Blue Prussian, fair to best, in oil.....	45 @55c
Blue Chinese, dry.....	70c
Blue Ultramarine.....	15 @25c
Brown, Spanish.....	1c
Brown, Van Dyke.....	5 @15c
Green, chrome.....	8 @12c
Green, chrome, in oil.....	9 @12c
Green, Paris, in oil.....	good, 30c; best, 35c
Green, Paris, in oil.....	good, 30c; best, 35c
Iron Paint, bright red.....	10 @15c
Iron Paint, brown.....	10 @15c
Iron Paint, purple.....	10 @15c
Iron Paint, ground in oil, bright red.....	10 @15c
Iron Paint, ground in oil, red.....	10 @15c
Iron Paint, ground in oil, purple.....	10 @15c
Linseed Oil, raw.....	57c
Single Boiled.....	57c
Double.....	61c
Mineral Paints.....	2 @4c
Orange Mineral.....	10c
Red Lead, American.....	6 1/2 @7c
Red Venetian, (Eng.) dry.....	\$1.50 to \$1.75
Red Venetian, in oil.....	ass'd cans, 9c; kegs, 6c
Red Indian, dry.....	10 @13c
Rose Pink.....	10 @13c
Sienna, American, raw.....	4c
Sienna, burnt.....	4 1/2 c
Sienna, burnt, in oil.....	8 @15c
Sienna, raw.....	8 @15c
Umber, burnt.....	4 @8c
Umber, raw.....	8 @15c
Umber, raw, in oil.....	8 @15c
Vermilion, Chinese.....	90c
Vermilion, English.....	50 @55c
Vermilion, American, common.....	15c
White Lead, American, pure dry.....	6 @6 1/2 c
White Lead, American, prime.....	In brls. 1 1/2 @2c
Yellow Ochre, French.....	\$1 75
Yellow Ochre, P'ch, in oil, ass'd cans, 9c; kegs, 5c	
Yellow Ochre, American.....	In brls. 1 1/2 @1 1/2 c
Yellow Chrome.....	10 @18c
Yellow Chrome, in oil.....	9 @12 @18c
Zinc White, American, No. 1, dry.....	5 @6c
Zinc White, American, No. 1, in oil.....	9c
Zinc White, French, (Paris) dry.....	3 @12c
Zinc White, French in oil.....	10 @14c

OILS.

Bleached W. Sperm oil.....	1 18 @20
Nat.....	1 13 @15
B. W. Elephant oil.....	78 @80
" Whale oil.....	78 @80
Prime Lard oil.....	83 @85
Extra No. 1 Lard oil.....	78 @80
Lubricating oils.....	15 @25
Miners' oil.....	15 @25
W. Pressed Fish oil.....	5 @55
Neatsfoot oil.....	65 @68
Steam-refined Cylinder oil.....	40 @55
Best Filtered.....	65 @68
Signal oil.....	60 @70
Paraffine.....	10 @25

SUNDRIES.

Benzine.....	gal. 8 @10c
Turpentine.....	gal. 35 @38c
Chalk.....	8c
Chalk, block.....	1c
Dryer, patent, Am'd.....	ass'd cans, 9c; keg, 7c
Frostings.....	40c
Glue, white.....	20 @26c
Glue, sheet.....	14 @30c
Glue, ordinary.....	16 @12c
Glaziers' Putty, zinc.....	8c
Gum Copal.....	36c
Gum Damar.....	25c

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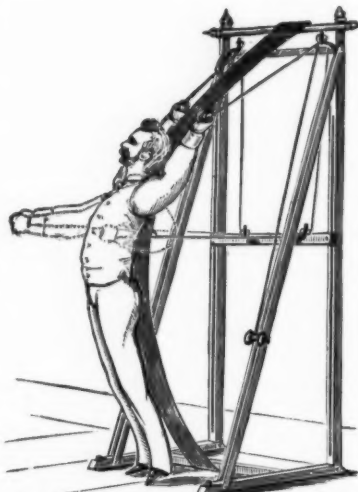


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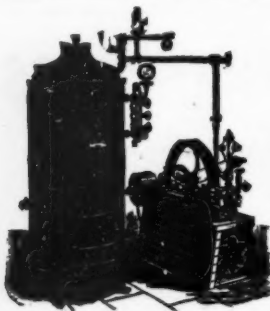
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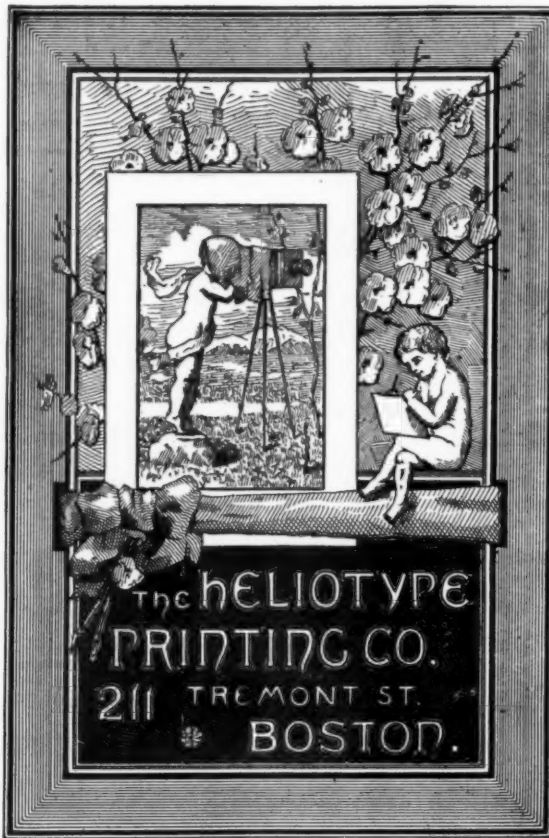
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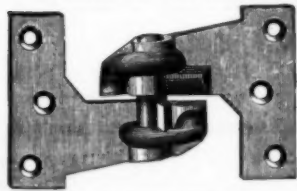
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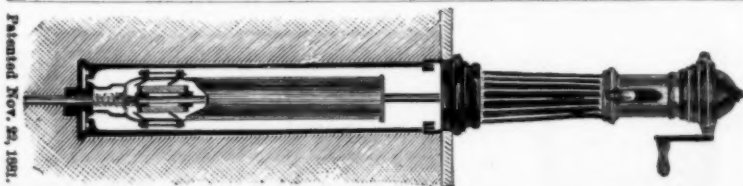
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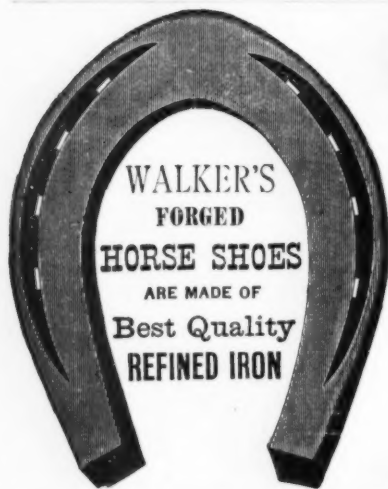
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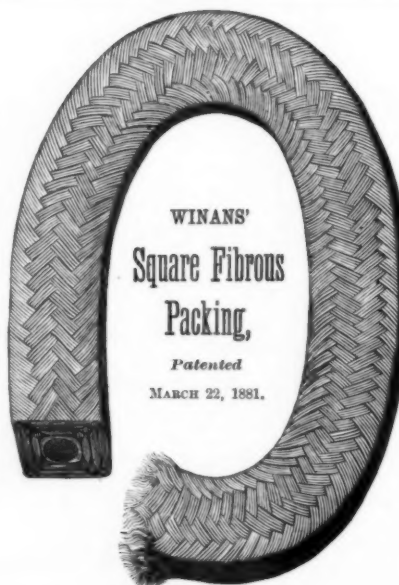


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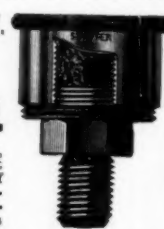
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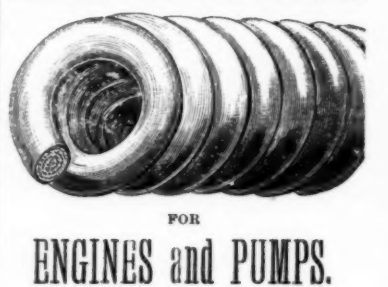
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Baeder & Adamson's Flint, 2 1/2 \$3.50 p'm.....	dis 25
Baeder & Adamson's Flint, Assort'd 4 1/2 \$7 p'm.....	dis 25
Baeder & Adamson's Star.....	dis 3.75 p'm
Baeder & Adamson's Emery p'm \$6.50 @ 11.50	
J. Bartle's Sand, Flint and Emery Paper.....	dis 30 & 35
SASH CORD.	
Common.....	dis 14 c, net
Patent.....	dis 17 c, net
Silver Braided Lake White Cotton.....	dis 10
Silver Braided Lake White Cotton.....	dis 10
Silver Lake Cable Laid, Bengall unbleached	dis 10
Hemp, 17 cts.....	dis 10
Russian Hemp, 19 cts.....	dis 10
Italian Hemp, 34 cts.....	dis 10
SASH WEIGHTS.	
Solid Eyes, in 500-lb. lots and over.....	dis 1 1/2 c, net
SAUSAGE STUFFERS OR FILLERS.	
Miles.....	dis 20, dis 25
Perry.....	dis 15, No. 0, \$21, dis 35
Enterprise Mfg Co.....	dis 25
Monarch.....	dis 40
SAWS.	
Boynston's Lightning Cross Cut, new list, dis 40	
Boynston's Circular and Mill.....	dis 40
Boynston's Ice.....	dis 35
Boynston's Lightning Hand, Panel and Rip, dis 25	
Disston's Circular.....	dis 40
Disston's Mill.....	dis 40
Disston's Cross Cut.....	dis 40
Disston's Hand, Panel, Rip, dis 20	
Hubbard, Bakewell & Co. Cir. Saws.....	dis 40 & 5
Hubbard, Bakewell & Co. Cross Cut.....	dis 30 c, ft.
Hubbard, Bakewell & Co. One-Man's, X Cut.....	dis 40 & 5
Hubbard, Bakewell & Co. Mill Saws.....	dis 40 & 5
Peace Circular and Mill.....	dis 40
Peace Hand, Panel and Rip.....	dis 35
Peace Cross Cut.....	dis 35
Peace Band Saws, all widths.....	dis 10
Webster Cross Cut, with Handles.....	dis 25 & 10 & 10
Griffin's Hack Saws and Blades.....	dis 30
SAW FRAMES.	
White.....	dis 10, dis 10
Saw Rods.....	dis 10, dis 10
SAW SETS.	
Stillman's Genuine.....	dis 30, dis 35, dis 40
Stillman's Imitation.....	dis 30, dis 35, dis 40
Common Lever.....	dis 30, dis 35, dis 40
Leach's.....	dis 15, No. 0, \$3.00; No. 1, \$15; dis 15
Hammer, Hotchkiss.....	dis 50, dis 10
Aiken's Genuine.....	dis 13.00, dis 50 & 10
Aiken's Imitation.....	dis 7.00, dis 50
Disston's.....	dis 30
Morrill's.....	dis 15, No. 1, \$15; No. 5, \$35, dis 35 & 10
SCALES.	
Hatch, Counter, No. 171.....	dis 42, dis 37 & 10
Hatch, Tea, No. 161.....	dis 15.00, dis 37 & 10
Valon Platform, Keystone.....	dis 45

Chicago Scale Co.	
Special dis	dis 30
Forsyth Scale Co.	dis 45
Howe's.....	dis 20 & 10
Chatillon's Grocers.....	dis 40
Chatillon's Eureka.....	dis 25
Family Universal.....	dis 50
Family Favorite.....	dis 30
Family Turnbull's.....	dis 30
Scale Beams, List of Jan. 12, 1882.....	dis 50
SCRAPERS.	
Adjust. Box Scraper (S. R. & L. Co.)	dis 20 & 10
Box, 1 Handle.....	dis 10
Box, 2 Handle.....	dis 10
Foot.....	dis 10
Ship, common.....	dis 10
Wilson Mfg Co.....	dis 10
Douglas Mfg Co.	
Disston's.....	dis 40
Cowles Mfg Co.....	dis 50 & 10
Stanley Rule & Level Co.'s Var. Hds. dis 40 & 10	
Stanley Rule & Level Co.'s B's Hds. dis 40 & 10	
Clark's Patent.....	dis 25
Shepardson.....	dis 25
SCREWS.	
Flat H'd Iron, list Dec. 27, '82.....	dis 70
Round Head Iron.....	dis 50
Flat Head Brass.....	dis 60
Round Head Brass.....	dis 15
Brass and Silver Cap.....	dis 40
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Coach, Patent Gimlet Point.....	dis 60 & 10
Coach, Common or Lag.....	dis 60 & 10
Bed.....	dis 10
Machine, Flat Head, Iron.....	dis 55
Machine, Round Head, Iron.....	dis 50
Bench, Iron.....	dis 50
Bench, Wood, Beech.....	dis 30
Bench, Wood, Hickory.....	dis 20 & 10
Hand, Wood.....	dis 20 & 10
Hand Rail, Sargent's.....	dis 60 & 10
Hand Rail, Humason, Beckley & Co.'s.....	dis 40 & 10
Hand Rail, Am. Screw Co., list Jan. 1, '81.....	dis 70
Jack (Wilson's).....	dis 35
SCREEN FRAMES AND FIXTURES.	
Standard Window Screens No. 1.....	dis 2, \$5
Door.....	dis 15, dis 40 & 10
Window Corner Irons, No. 3, doz. \$12, \$15	
Door.....	dis 10, \$3
Door Latches, 7 dozen, \$3.00; dis 50	
Porter's Patent Window and Door Screen Frames:	
PER DOZ. SETS.	
White, Walnut.....	dis 30
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No. 21.....	dis 3.25, 4.00
No. 22.....	dis 5.50, 6.75
No. 23.....	dis 6.00, 7.50
No. 30.....	dis 10.00, 12.50
Porter's Corners and Sticks complete for a	
three-foot window, 7 doz. sets.....	dis 4
No. 1. Set for Window, 7 doz. sets, Bronzed,	
\$2.40; Nickel, \$5.62	
No. 1 1/2.....	dis 3.30, Nickel, \$7.50
No. 4.....	dis 4.00, Nickel, \$5.00
No. 4 1/2.....	dis 4.00, Nickel, \$5.00
No. 4 1/2.....	dis 4.00, Nickel, \$5.00
No. 4 1/2.....	dis 4.00, Nickel, \$5.00
No. 2 1/2.....	dis 4.00, Nickel, \$5.00
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SHARPENING AND SCISSORS.	
American (Cast) Iron.....	dis 70 & 10
Pruning.....	dis 70 & 10
Barnard's Lamp Trimmers.....	dis 40
Tinners.....	dis 15
Conn. Shears.....	dis 80
Norfolk Shear Co.....	dis 75
Jersey Shears.....	dis 80
J. W. & Son, Nickel, 50 & 60; Japanned, 60 & 65	
SHAVES.	
Sliding Door, M. W. & Co., list.....	dis 45 & 5
Sliding Door, R. & E. list.....	dis 60 & 10 & 2
Sliding Door, Patent Roller.....	dis 60 & 10 & 2
Sliding Door, Pt. Roller, Hatfield's.....	dis 60 & 10 & 2
Sliding Door, Russell's Anti-Frict'n.....	dis 60 & 10 & 2
SHOVELS AND SPADES.	
Ames, New List, July 1, 1881.....	dis 15
Griffiths.....	dis 15
Remington's (Lowman's Patent).....	dis 30
Rowland's.....	dis 30
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Lippincott, new list.....	dis 30
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Clark's Improved Shutter Hinge, Nos. 0, 1, 1 1/2, 2, 2 1/2, 3.....	dis 75
Iron and Brass Head, R. & E. list.....	dis 60 & 10 & 2
Polished Steel, New List.....	dis 50 & 10 & 2
SLEIGH BELLS.	
Arctic and Polar.....	dis 30
Loose and neck and body strap.....	dis 50
SPOKE TRIMMERS.	
Bonney's.....	dis 10, dis 40 & 5
Stearns.....	dis 10, dis 40 & 5
Ives.....	dis 10, dis 40 & 5
Douglas.....	dis 10, dis 40 & 5
SILVER-PLATED WARE.	
Wm. Rogers Manf. Co.....	dis 50, 10, 5 & 5
Holmes, Booth & Hayden.....	dis 40 & 10 & 5
Brown Bros.....	dis 40 & 10 & 5
Wallace's Steel Silver Plated.....	dis 35 & 10
Rogers Bros 1847.....	dis 50
C. Rogers & Bro.....	dis 40, 10 & 5
SILVER PLATED HOLLOW WARE.	
Wm. Rogers Manf. Co.....	dis 40, 15 & 5
Meriden Britannia Co.....	dis 40
SPOONS.	
Britannia.....	dis 60 & 10
Tinned, Iron, Table and Tea.....	dis 65
Tinned Iron Basting.....	dis 65
German Silver.....	dis 40, 12, 1, 2 & 5
STONE.	
Hindustan No. 1, 5c; Axe, 8c.....	net
Sand Stone.....	dis 6 c, dis 35 & 10
Washita Stone.....	dis 1, 1 1/2, 1 3/4, net
Washita Stone, Silps.....	dis 1, 1 1/2, 1 3/4, net
Arkansas.....	dis 1.50 p'm, net
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Steel.....	dis 50 g; full cases, dis 50 & 10 g
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Disston's Try Square and T Bevels.....	dis 40
TRIPS.	
Solid Box-Wilson's.....	dis 50
Trenton.....	dis 45
Iron City Tool Works.....	dis 50
Bench-Wilson's.....	dis 45
Trenton.....	dis 25
Parker's.....	dis 20
Prentiss.....	dis 25
Bonney's.....	dis 35
Well Wheels.....	dis 60 & 10 & 10

TROWELS.	
Lothrop's Brick and Plastering.....	dis 25
Reed's Brick and Plastering.....	dis 15
Disston's Brick and Plastering.....	dis 20
Clement & Maynard's.....	dis 30
Worrall's Brick.....	dis 30
Bradley & Waby's.....	dis 30
Garden.....	dis 55
TRUCKS (WAREHOUSE, &c).	
Handy Truck.....	dis 25 net
Penfield Block Co.'s list, 1882.....	dis 35
Peerless, with Cogs, No. 3.....	dis 54.00
Peerless, with Cogs, No. 4.....	dis 66.00
Eureka, No. 2.....	dis 42.00
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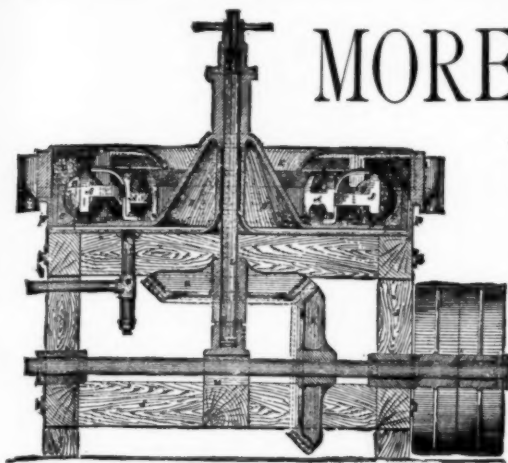
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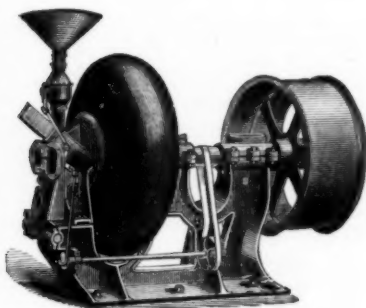
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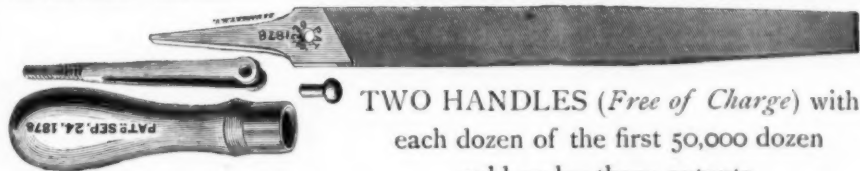
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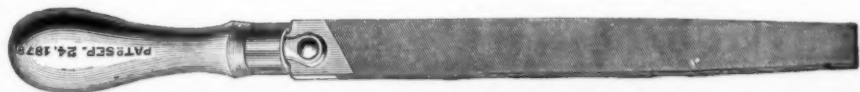
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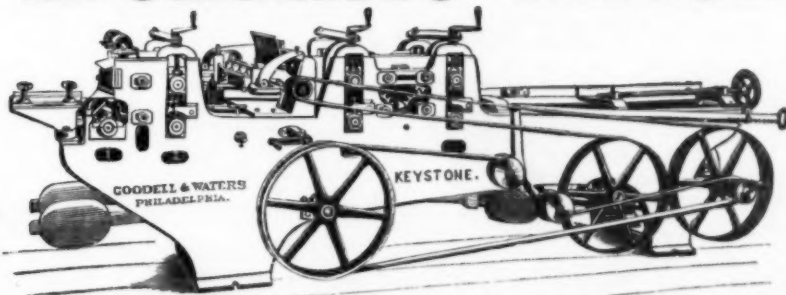
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Investments in the South.

The MANUFACTURERS' RECORD, of Baltimore, as appears from our dispatches, published yesterday a statement showing the amount of capital invested in manufacturing and mining enterprises in the South during the months of January and February of this year. The amount, according to this statement, is \$28,200,000. Of this sum Georgia got \$2,074,000. This a very remarkable showing. At this rate it will not be many years before the South will become the chief manufacturing section of the country. There is no doubt that Northern capital is quietly but surely flowing into the South in vast amounts. The amount of this capital is not realized until a summary like that of the MANUFACTURERS' RECORD is made up and published. There is no reason to doubt that investments in the South will increase from month to month, and from year to year. They certainly will continue to increase as long as they prove to be profitable, and there is no reason why they should not prove to be profitable for an indefinite period.

The South is rich in agricultural and mineral resources, and she has advantages for manufacturing possessed by no other section. She has an excellent climate and plenty of water-power. She now manufactures iron more cheaply than it can be manufactured anywhere else in this country, and with a little more experience and capital she will be able to manufacture all kinds of cotton goods as cheaply as they can be manufactured in any other part of the world. The value of the sweet gum and other woods of the South is just beginning to be appreciated. It will not be long before factories will be established to manufacture these woods into furniture and into railway passenger and sleeping cars. Every dollar that is invested in the South is pretty certain to cause the investment of two more dollars. The exposition at New Orleans, beginning next December, will make the South's undeveloped riches far more generally known than they are at present, and will draw to her both immigrants and capital. The MANUFACTURERS' RECORD will be able henceforth to show, doubtless, that every month the investments in factories and mines at the South are greater than the previous month.—*Savannah News.*

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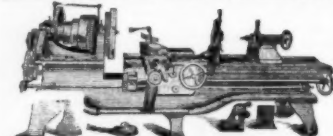
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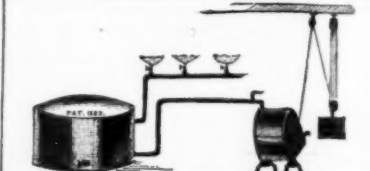
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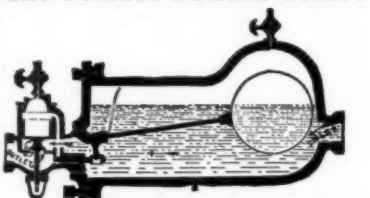
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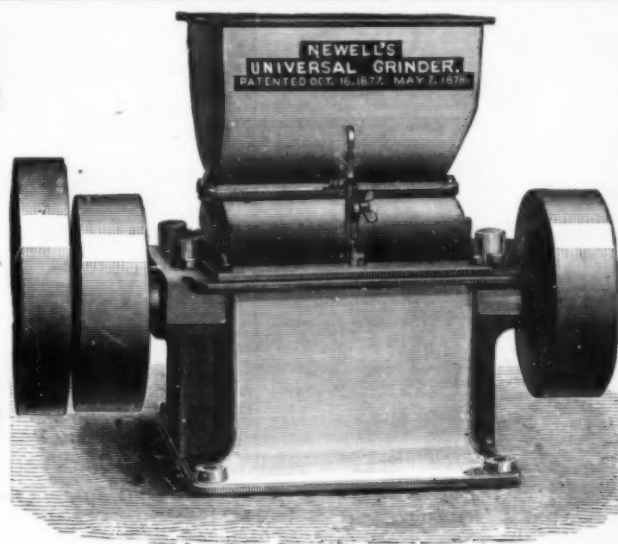
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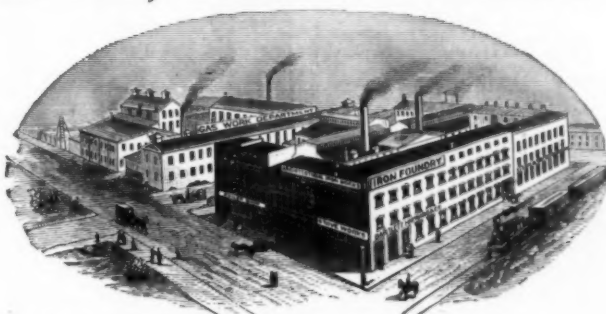
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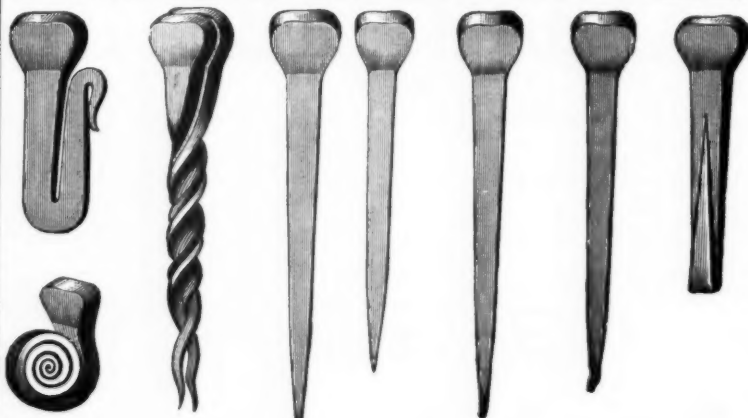
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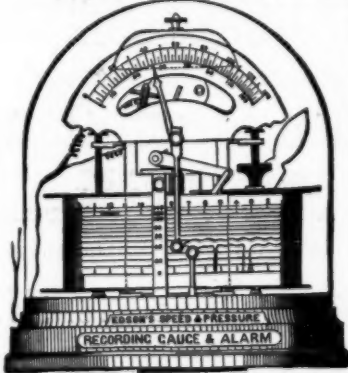
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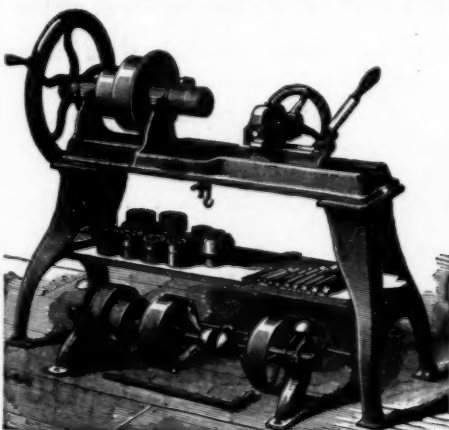
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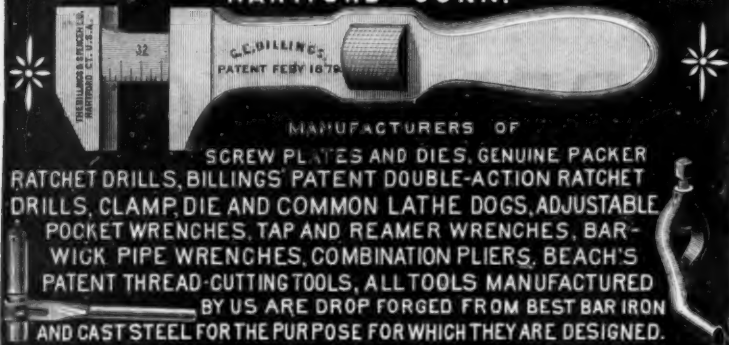
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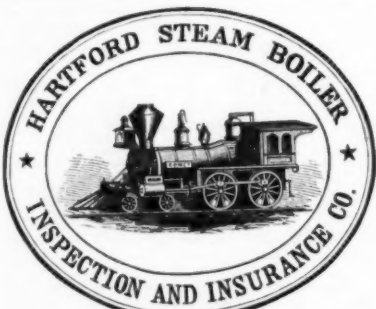
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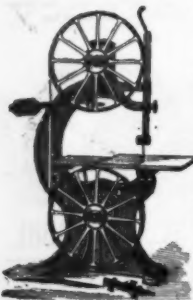
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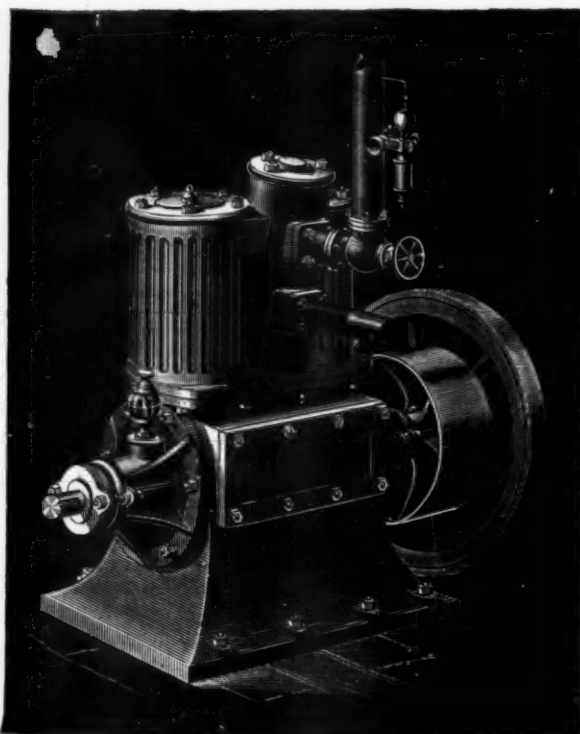
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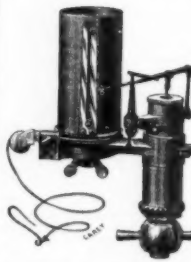
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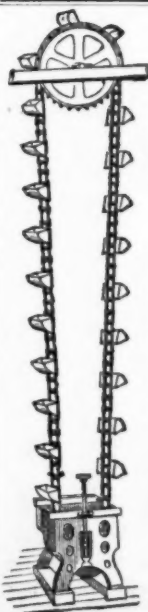
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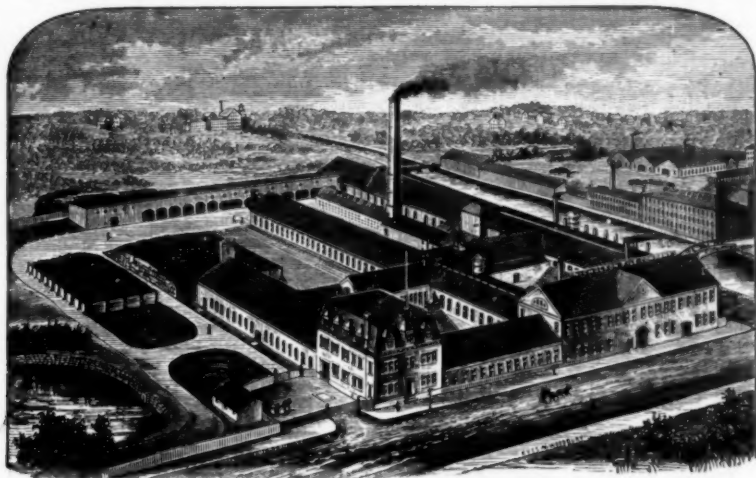
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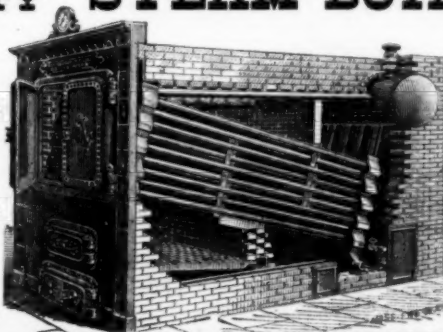
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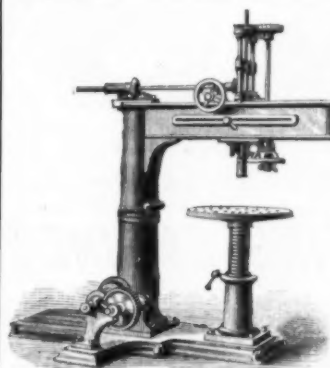
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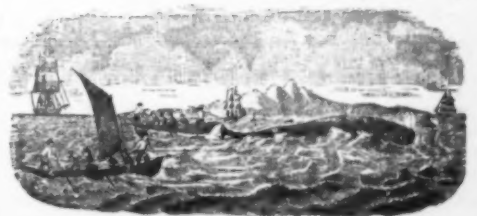
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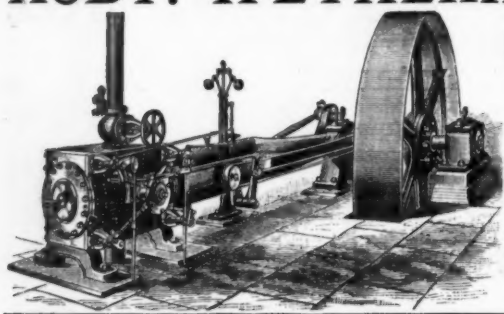
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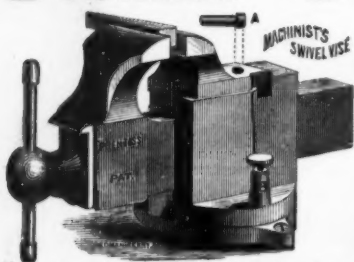
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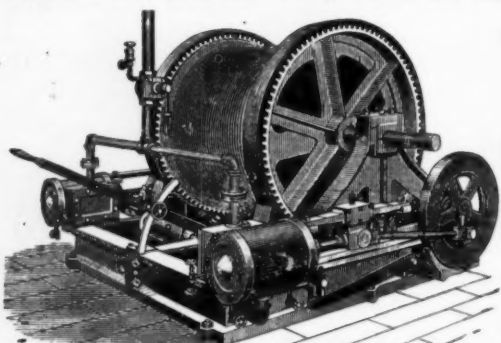
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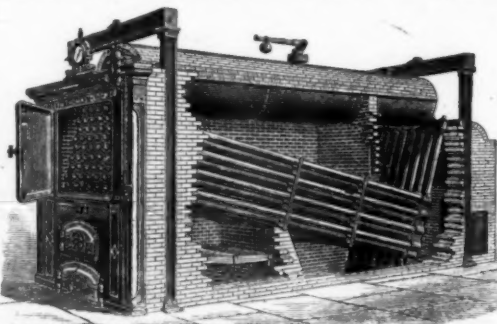
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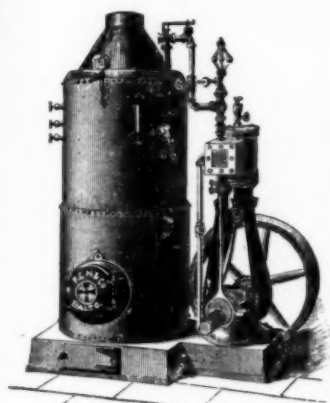
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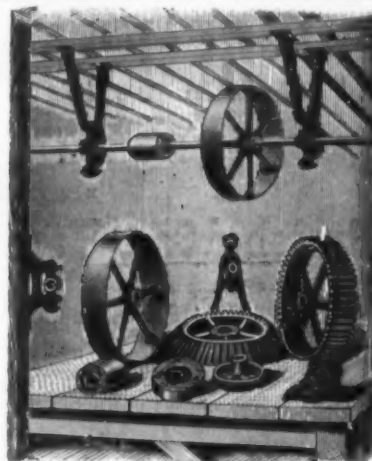
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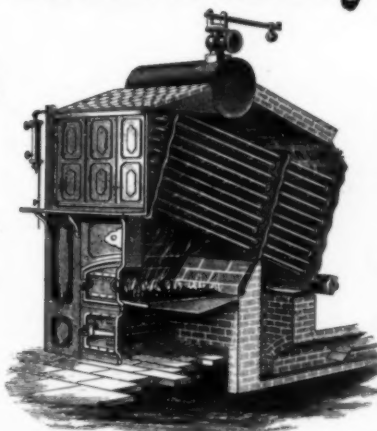
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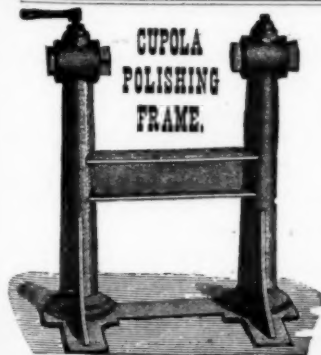
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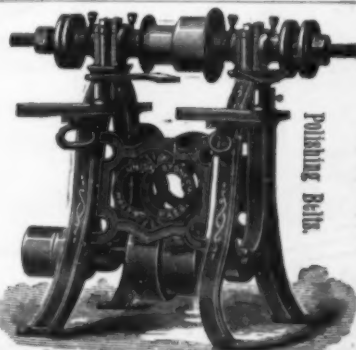
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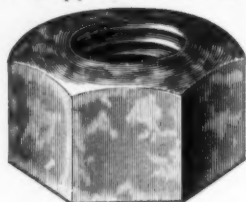
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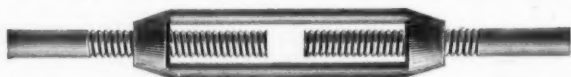
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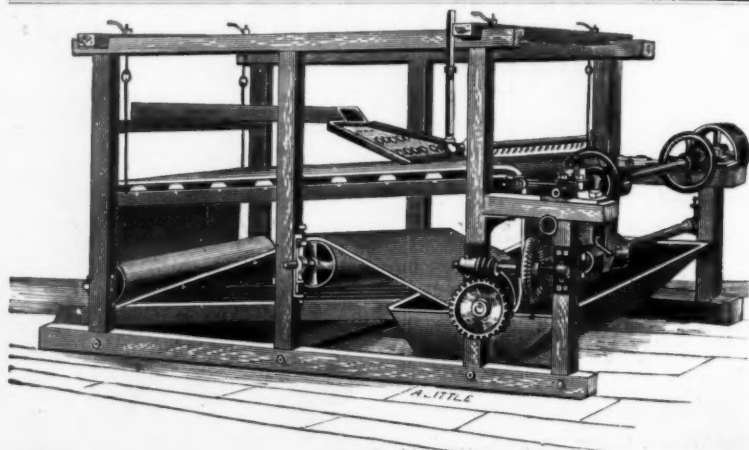
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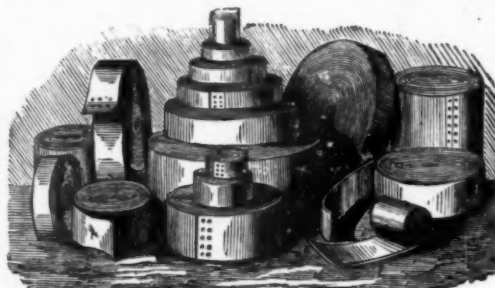
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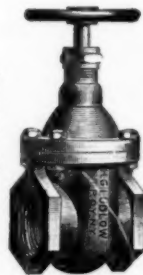
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